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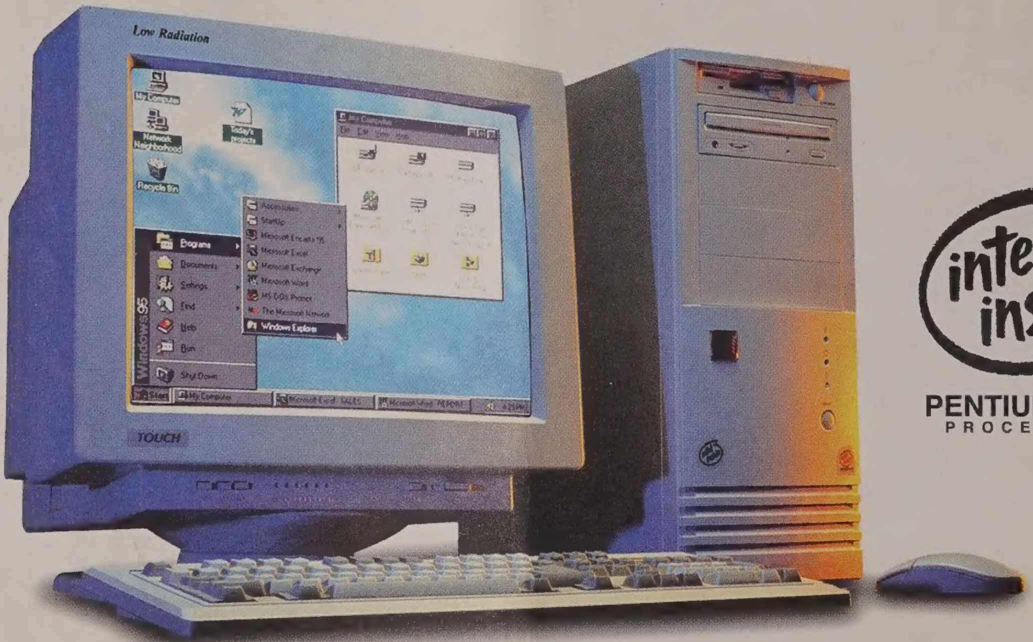

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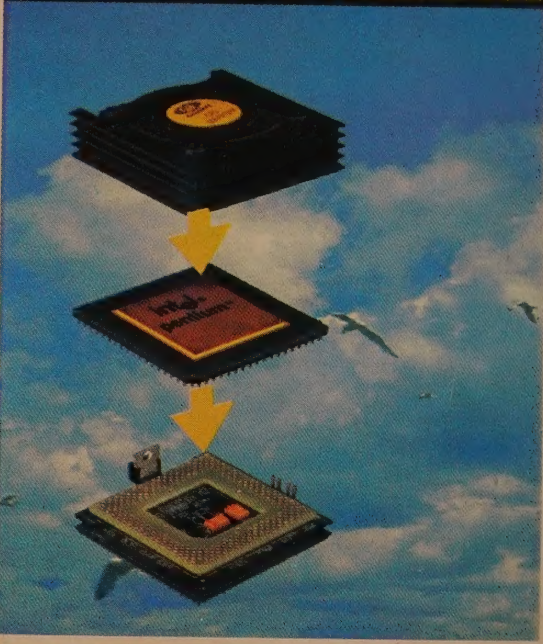

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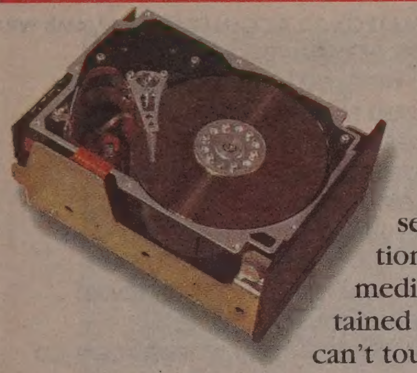

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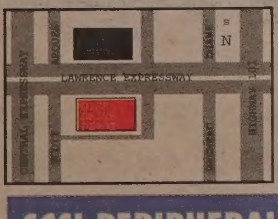

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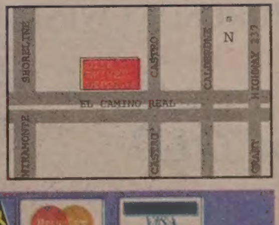

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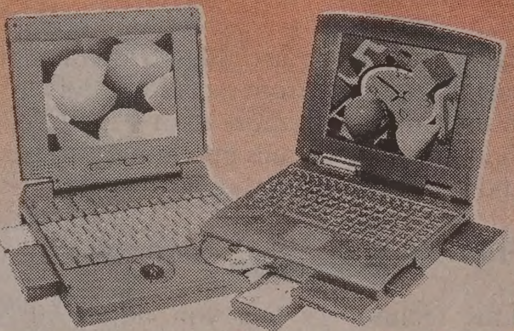

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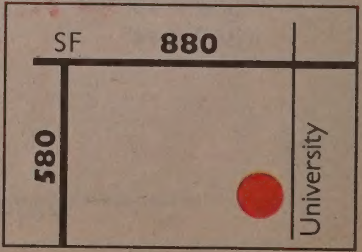

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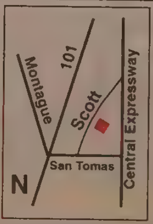

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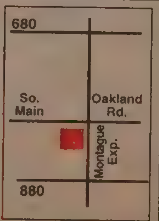

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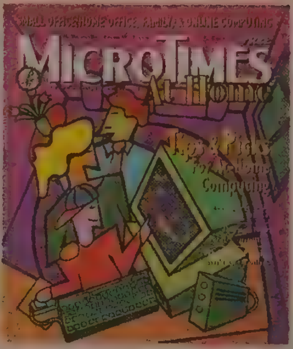

Credit Where It's Due

We inadvertently neglected to credit the artwork on the cover of our first *MicroTimes At Home* issue to Trina Baucom, who also did the cover illustration for this issue. Trina is a freelance illustrator based in the East Bay; you can reach her at (510)523-4938. We apologize to Trina and all concerned for this major omission!
—eds.

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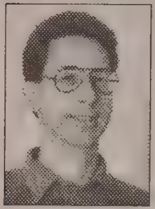

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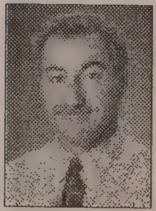

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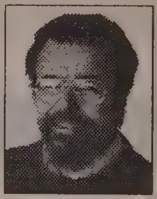

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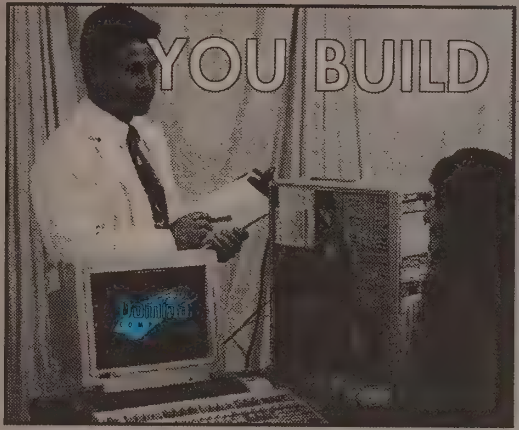

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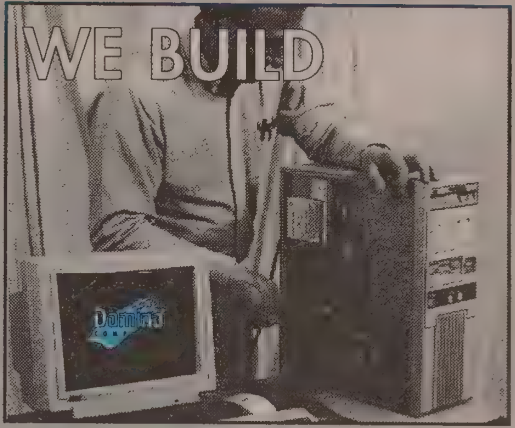

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BY PAUL HOFFMAN

Industry Insights

More Options For The Corporate Network: Attractive Savings, More Flexibility

The recent proposed merger of LDDS WorldCom and MFS Communications, two companies most people in the microcomputer world have never heard of, will have a profound impact on the way large companies connect to the Internet and to their branch offices. Although it is not of much concern to individuals who dial into the Internet with modems, the new market for corporate connectivity and telephone service will be as much of a revolution as desktop publishing was ten years ago.

Because much of the "news" about the Internet concerns end-users and dial-up Internet service providers (ISPs), the market for corporate networking is often ignored. Further, you rarely read about telephone rates going up or down, since the effect on most users is in the tens or low hundreds of dollars per year. However, many corporations, and not just large ones, pay tens or hundreds of thousands of dollars per year for telephone and network use, and lowering these costs even by 5% or 10% will have a significant impact on how they can do business.

> As **more and more** of a company's communications shift from voice to data, service providers who understand both their data needs and voice needs can start snatching up dissatisfied customers of the larger, slower monopolies.

New Competitors For Tired Monopolies

Even corporations that aren't on the Internet have lots of experience with networking past the LAN. Many companies have two or more offices, and the problems with connecting the offices together fill books. On the non-computer level, there is the quest for low-cost local, long-distance, and international phone service. This market has been particularly competitive since the breakup of the AT&T monopoly. In the past decade, many companies have also made a strong effort to get all the local networks within the company communicating, even if that meant leasing lines that run across the country to link each LAN.

Most of the major phone companies, such as the regional Bell companies like Pacific Bell and the long-distance carriers like AT&T, MCI, and Sprint, can offer both phone service and data service. With the recent deregulation of local access, these companies will be able to offer a wide range of voice and data services to large customers. However, these telco giants have often been incredibly overpriced and not service-oriented, which has caused many corporate customers to buy some services from one company and other services from another.

The smaller companies in the phone and data fields have been watching the markets change, and are now in a position to start merging and emphasizing their strengths, particularly in customer service. As more and more of a company's communications shift from voice to data, service providers who understand both their data needs and voice needs can start snatching up dissatisfied customers of the larger, slower monopolies. Further, as more and more phone and data companies switch to fiber optics for local and long-haul connections, the difference between voice and data starts to disappear, and both can be put together on a single invoice.

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LDDS WorldCom is the fourth-largest long-distance company in the United States. Although they have some home users, the majority of their market is large corporate customers. MFS Communications is one of the few non-Bells to have a significant part of the local-access market, although it is only in a dozen major cities where it's laid its own fiber-optic cables.

A few months ago, MFS bought Uunet Technologies, one of the largest and oldest nationwide ISPs. The MFS-Uunet merger was supposed to help MFS capture more of the corporate Internet market in the cities in which it has a major presence.

Now together, MFS WorldCom (the name of the merged company) can offer a package of communications services that rivals the Bells in scope, at what will probably be a much lower price. Using MFS's local fiber and WorldCom's national fiber, the combined company can sell general communications services that will be

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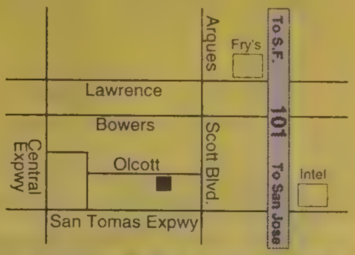

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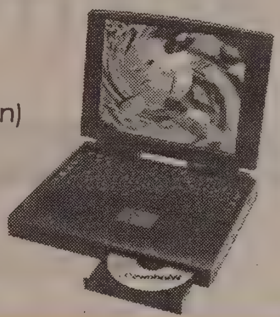

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tailored to the customer's needs at a level that their larger competitors can only dream of. If you have ever tried to talk to one part of Pacific Bell about services offered by another group (regardless of whether or not the service split makes any sense), you'll know why many big phone and network users are looking forward to MFS WorldCom and other similar future mergers.

Although there is still plenty of copper and satellite links for basic phone service, fiber optics has made it possible for companies like MFS WorldCom to offer high-speed connections to customers and let the Information Services department sort out who gets what bandwidth. Because voice communications are running over the same fibers as data, MFS WorldCom can better predict the needs for bandwidth. Of course, older companies that own copper wires and satellite links can do the same, but fiber optics offers so much more bandwidth per line that the economies of scale work strongly to the benefit of providers that have mostly fiber.

Private Networks Get Cheaper

It's not just new competition that has changed the way companies view their out-of-building networking needs. The widespread deployment of the Internet has caused a big change in how far-flung offices can be linked. Before the Internet became ubiquitous, the only serious choice for creating WANs (wide-area networks) was to lease private lines from telephone or networking companies. Private lines are both slow and expensive. A typical private network runs at 56Kbps, about twice as fast as a typical modem these days. Depending on the distance covered, it could easily cost in the thousands of dollars per month.

In the past few months, the market for VPNs, or virtual private networks, has begun to heat up. A VPN is not private at all: It uses the standard Internet as the main method for dragging bytes from office to office. In order to maintain security, the data packets are automatically encrypted by the sender, then decrypted on the other end. As long as you are using fairly robust encryption, even someone watching what is going by cannot tell what the packets contain.

VPNs stand to revolutionize multi-office companies as the cost for the encryption systems go down. Because direct connections to a local Internet provider are much less expensive than direct connections across the country (and are often less expensive than direct connections across an area like Los Angeles or San Francisco), using the Internet as the conduit for your networking can easily cut the cost of your network in the course of just a month or two.

Private leased lines are not going to disappear soon, however. VPNs are no panacea. For one, they rely on the Internet's sometimes-flaky routing to get your packets from one place to another. If the Internet is slow or balky, so is your network connection. Even though leased lines are slow and expensive, they are usually pretty reliable, and the support services have been around

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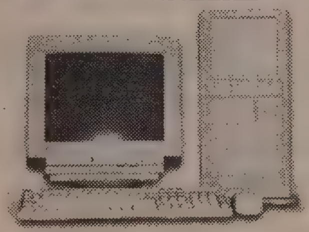

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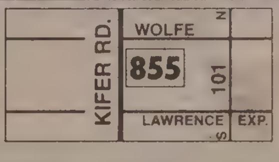

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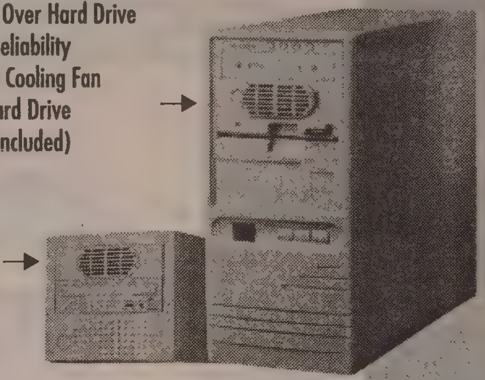

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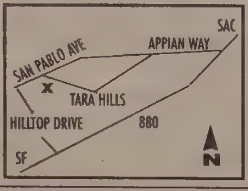

Industry Insights *continued...*

for decades. As companies like MFS WorldCom make VPNs more attractive, the prices for leased lines will be forced down in order to compete.

Another force may also make expensive leased 56Kbps lines much less attractive in the coming year. A few remote-access hardware vendors are starting to make PPP much more than just a way to dial into a network from a modem. A recent spate of standards have emerged that let dial-in PPP systems tie together two separate 28.8Kbps modem lines from one computer into a 56Kbps line running over the plain old telephone system, without any leased line overhead. On each end, a box (or even a computer) has two modems that are dialed to the same place, and it looks to the computer like you've got a 56Kbps line. Recent standard additions to PPP can give you advanced compression, and very solid encryption as well.

The Co-location Alternative

Of course, most of us work for companies that aren't so large that they need a high-speed Internet connection to the office. In fact, if it wasn't for the Web, most small- and medium-sized companies would do just fine with a full-time 28.8Kbps modem for handling email and normal FTP. However, the Web has now forced many businesses to consider running an expensive, high-speed line to their offices just to handle the traffic on their hopefully-popular Web site. A few ISPs are offering a much lower-cost, better solution for these situations.

> Using MFS's local fiber and WorldCom's national fiber, the combined company can sell general communications services that will be tailored to the customer's needs at a level that their larger competitors can **only dream of.**

Instead of running a high-speed line to the company for the Web site, you park your Web server hardware at the ISP's location and connect into their internal Intranet over Ethernet. Then, all the company needs is a way to connect to the ISP to get email and do Web server maintenance. This setup, called co-location, can cut the cost of a high-speed Web connection by over 80% while increasing the reliability of the connection for the Web.

Of course, many ISPs and other companies are also offering Web hosting services, although these are often too confining and insecure for serious Web use. These services almost always cost even less than co-location, and have the advantage that the Web server is administered by a professional at the ISP instead of at your company. The downside is that you are sharing the computer with many other companies, and you are at the mercy of the security set up by the ISP. If your Web service needs take a lot of CPU power (which more and more do these days), you're sharing with an unknown number of other sites that also need that power.

Co-location is still a new business, and there are only a handful of ISPs that offer it in a professional manner. Within a year, however, it may become nearly as popular as Web site hosting, as more and more companies want to control their own Web server but don't want to pay for a high-speed line to their offices. Large companies, of course, already have such lines, and will soon find themselves with even more choices of vendors and prices. ■

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Stock Chart on page 28

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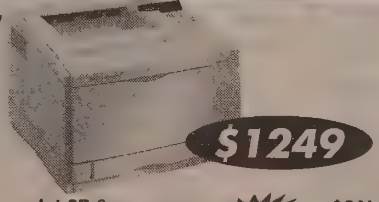

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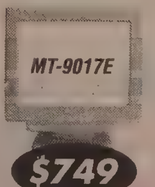

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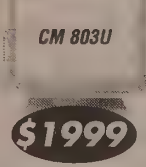

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AccelPro 1000TX 8MB VRAM, 4MB DRAM	$2199
AccelPro 1500TX 8MB VRAM, 8MB DRAM	$2699

SYMMETRIC

GLyder Max	$949
GLyder TX	$1899
GLyder MP	$CALL

APPIAN
Dual monitor Support from a single Board – Fast!

Impulse A2 2MB PCI	$449
Jeronimo J2 4MB PCI	$549
Jeronimo J2 8MB PCI	$849
JCAD 2MB	$369
JCAD 4MB	$419
JCADual 4MB	$689
JCADual 8MB	$989

All JCAD boards include Vibrant Graphics SoftEngine

Dual Monitor drivers for AutoCAD or Microstation	$Call

CAD SOFTWARE

Autodesk.

AutoCAD LT for Windows 95 Diskette or CD-ROM	$389
AutoCad LT for Windows 3.1 (R2) Diskette or CD-ROM	$249
AutoCAD for PC's	$2699
AutoCad R12 (DOS or Windows)	$2829
AutoCad R13 (Diskette) C4	$3099
AutoCad Upgrade to R13	$479
Mechanical Desktop-includes AutoCAD R13 AutoSurf, Designer, IGES Translator, & MCAD API	$4799
Mechanical Desktop Upgrade from R13	$2199

COMPUTER SHOPPER *July1996*
"My best experience came at North American CAD Co."
page 644

NORTH AMERICAN CAD COMPANY • OPEN SATURDAYS 10AM - 4PM

ASUS System

100Mhz $1355

Asus Mainboard
256KB Pipeline Burst Cache
PCI EIDE & Floppy Controller
Hi-Speed Serial Ports & Parallel Port
16MB RAM
1.44MB Floppy Drive
1.6GB EIDE Hard Disk
8X Internal EIDE CD-ROM
Diamond Stealth 64 1MB PCI Card
Med Tower Case w/Power Supply
15" SVGA Non-Interlaced 0.28 Monitor
Microsoft Mouse, 104 Keyboard
Windows 95 CD & Power Center

120Mhz	$1390	133Mhz	$1435
150Mhz	$1490	166Mhz	$1620

Deluxe System

100Mhz $1555

Intel Endeavor Pentium w/SB 16
256KB Pipeline Burst Cache
PCI EIDE & Floppy Controller
Hi-Speed Serial Ports & Parallel Port
16MB RAM, 1.2GB EIDE Hard Disk
1.44MB Floppy Drive
8X Internal CD-ROM, 160W Speakers
Diamond Stealth 64 2MB PCI Card
Supra 33.6 Internal Voice Fax Modem
Medium Tower Case w/Power Supply
15" SVGA Non-Interlaced 0.28 Monitor
Microsoft Mouse, 104 Keyboard
Windows 95 CD & Power Center

120Mhz	$1590	133Mhz	$1635
150Mhz	$1690	166Mhz	$1820

Pentium Pro *200*

$2828

Intel Venus Pentium Pro Mainboard
Intel Pentium Pro 200Mhz CPU
PCI EIDE & Floppy Controller
Hi-Speed Serial Ports & Parallel Port
32MB RAM
2.0GB EIDE Hard Disk
1.44MB Floppy Drive
8X Internal EIDE CD-ROM
Matrox Millennium 2MB WRAM Card
Supra 33.6 Internal Voice Fax Modem
ATX Med Tower Case w/Power Supply
17" SVGA Non-Interlaced 0.26 Monitor
Microsoft Mouse
Natural 104 Keyboard
Windows 95 CD & Power Center

Cyrix 133 System

$1018

PCI Pentium Mainboard
Cyrix 133 CPU
PCI EIDE & Floppy Controller
Hi-Speed Serial Ports & Parallel Port
16MB RAM
1.0GB EIDE Hard Disk
1.44MB Floppy Drive
4X Internal EIDE CD-ROM
16 Bit Sound card & 60W Speaker
SVGA PCI 1MB Card
Mini Tower Case w/Power Supply
14" SVGA Non-Interlaced 0.28 Monitor
Microsoft Mouse
104 Keyboard
Windows 95 CD & Power Center

150Mhz	$1058	166Mhz	$1138

Multimedia

6X CD-ROM NOTEBOOK

16MB Memory
810MB Hard Disk
Built-in 6X CD-ROM
16 Bit Sound & Speaker
PCMCIA 2.1
Window 95CD & Manual

Pentium 133Mhz and 12.1" Active Color

Only $2878.00

Pentium 100Mhz and 11.3" Dual Scan Color

Only $2200.00

MainBoard

Pentium PCI	
Acer w/256K	$155
ASUS w/ 256K	$165
Intel w/SB16	$215
QDI w/256K	$115
Pentium Pro	$325
Pemtium ML	$165
486 PCI	
486 PCI	$88

Video

Diamond	
Speedstar 1MB	$48
Stealth 64 1MB	$65
Stealth 64 2MB	$78
2001 Video 2MB	$95
2001 2VRAM	$225
ATI	
Winboost 1MB	$88
Matrox	
Millennium 2WM	$175
Millennium 4WM	$285

Monitor

Acer 14"	$220
Acer 15"	$285
Viewsonic14ES	$248
Viewsonic15ES	$340
Viewsonic17GS	$618
Viewsonic17EA	$618
MAG DX1795	$595
MAG DX1595	$340
MAG 15T	$380
Zynk 14 .28	$218
Zynk 15 .28	$280
Zynk 17 .26	$538

Sound Card

SB 16	$63
SB AWE32	$229
ESS 16Bit	$39
Speakers	
60W	$23
160W	$38
240W	$48
Yamaha	$75

Special

Seagate 2GB SCSI HDD

Only $399

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FOR MORE INFORMATION

COMPUTER RENTAL

CD ROM

Toshiba	
8X Int. EIDE	$110
4X Int. SCSI	$135
Plextor	
8X Int. SCSI	$370
Mitsumi	
4X Int. EIDE	$70
NEC	
4X Int. SCSI	$85

Hard Disk

EIDE	
Conner 540MB	$141
Seagate 2GB	$295
WD 1.2 GB	$210
WD 1.6 GB	$205
WD 2GB	$289
WD 2.5GB	$309
Quantum 1 GB	$170
Maxtor 2 GB	$265
SCSI	
Seagate 2GB	$399
Seagate 4GB	CALL

MODEM

US Robotics	
33.6 Int.	$148
33.6 Ext.	$165
33.6 Voice	$169
33.6 Win	$95
Maxtech	
14.4 Int. w/ V	$55
33.6 Int.	$130
Other	
Zoltrix 33.6	$99
Supra 33.6	$108

CPU/Memory

CPU	
Pentium 120	$CALL
Pentium 133	$215
Pentium 150	$293
Pentium 166	$399
Pentium Pro	$CALL
Cyrix P150+	$145
Cyrix P166+	$225
Memory	
4MB 72 pin	$30
8MB 72 pin	$65
16MB 72 pin	$130

Free Installation

Zynk

17" 0.26 Monitor

Only $538

Special

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Systems Have 1 Year Part & 2 Years Labor Warranty
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No Refund or Exchange after 30 Days from Invoice Date
A $20 Charge for Each Returned Check
15% Finance Charge on Unpaid Balance after Due Date
Customers are Responsible for Attorney Fee and Cost of Collection

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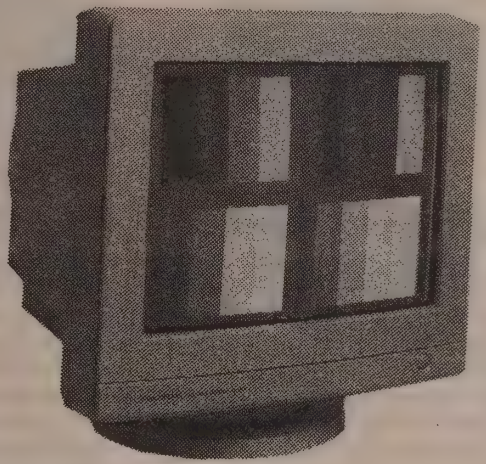
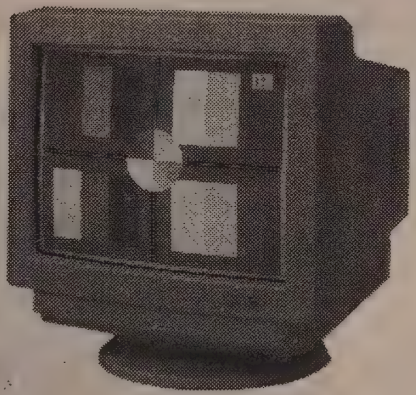


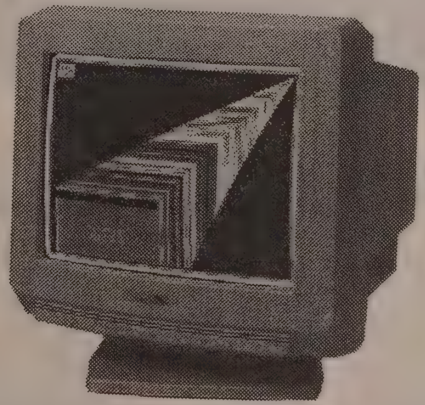
GM1768

CRT Size	17"
Viewable Size	15.8"
H.Sync	30-64 KHZ
V.Sync	44-100 HZ
Dot Pitch	0.26mm



GM1560

CRT Size	15"
Viewable Size	13.8"
H.Sync	30-65 KHZ
V.Sync	44-100 HZ
Dot Pitch	0.28mm



GM1498

CRT Size	14"
Viewable Size	12.75"
H.Sync	30-56 KHZ
V.Sync	50-90 HZ
Dot Pitch	0.28mm

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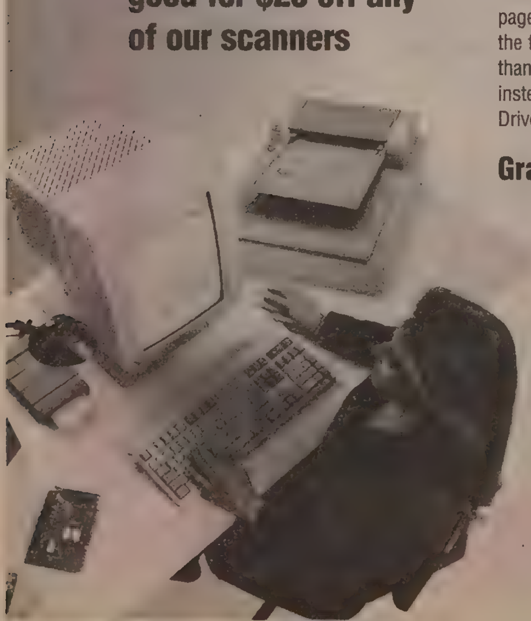
OCTOBER 19

The Envisions Scanner Showroom has moved to a larger, easier-to-reach site to serve you better.

Come to our grand opening sales event on Saturday, October 19 and enter to win great door prizes, including:

- **A new 300dpi color flatbed scanner**
- **Software from Corel, Xerox & Adobe**
- **Discounts coupons good for $20 off any of our scanners**



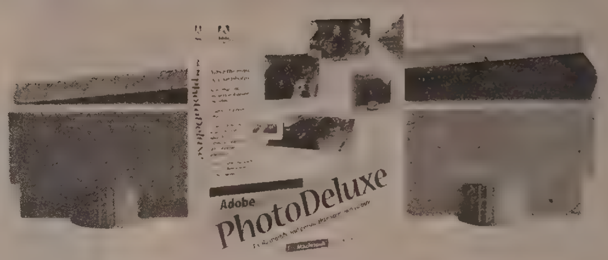
Right for the home office

Umax PageOffice Color with Adobe PhotoDeluxe

Sheetfed, 24-bit color scanner with 300 x 600dpi optical resolution. Just released, the PageOffice Color is a versatile, "one-click" color scanner that comes with Adobe PhotoDeluxe image editing software and NewSoft Presto! PageManager for copying, faxing, OCR & filing. Plugs into a parallel port for quick and easy installation, with a pass-through port for your printer. Drivers for Windows 3.1 and Windows95.

Grand Opening Price $249

Perfect starter system

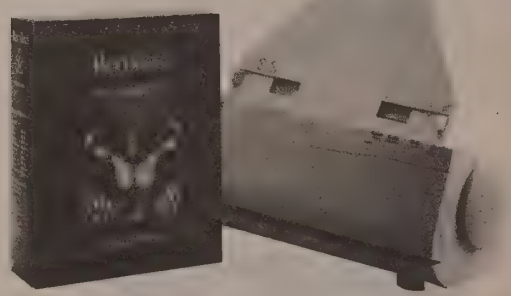


Umax Vista S6 Scanner with Adobe PhotoDeluxe

Single-pass, 24-bit color flatbed scanner with 4800dpi enhanced resolution and 300 x 600dpi optical resolution. Scans a whole page in color in under a minute! Comes with Adobe PhotoDeluxe image editing software, NewSoft Presto! PageManager for copying, faxing, OCR & filing, and SCSI interface card, cable & terminator. Drivers for Windows 3.1, Windows95, Windows NT4, Macintosh, and Power Macintosh.

Grand Opening Price $279

A paperwork policeman!

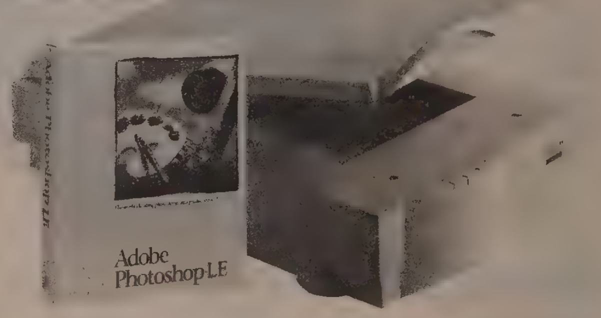


Umax PageOffice with Mindworks Recollect

Sheetfed, 8-bit grayscale scanner with 300dpi resolution. Scans up to 10 pages per minute! Comes with Mindworks Recollect OCR & filing software, the fastest and easiest way to file and find all kinds of paperwork. Faster than a PaperPort Vx because it's SCSI, and handles ten pages at a time instead of just one. Includes SCSI interface card, cable & terminator. Drivers for Windows 3.1, Windows95, Macintosh, and Power Mac.

Grand Opening Price $249

Great workgroup scanner



Umax Vista S12 Scanner with Adobe Photoshop LE

Single-pass, 24-bit color flatbed scanner with 9600dpi enhanced resolution and 600 x 1200dpi optical resolution. High resolution lets you enlarge images without losing detail! Comes with Adobe Photoshop LE image editing software, NewSoft Presto! PageManager for copying, faxing, OCR & filing, and SCSI interface card, cable & terminator. Drivers for Windows 3.1, Windows95, Windows NT4, Macintosh, and Power Macintosh.

Grand Opening Price $679

Adobe Photoshop

The pro's choice for image editing. Buy now, get a free upgrade to Photoshop 4.0!

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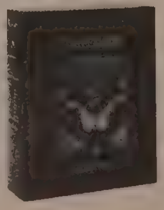
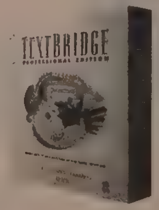


Mindworks Recollect

The best software for filing & finding documents. Database stores both page images and text!

With Any Scanner $99



Xerox TextBridge

Professional Edition of the world's most accurate OCR software, for Windows 3.1, 95 & NT4.

With Any Scanner $149

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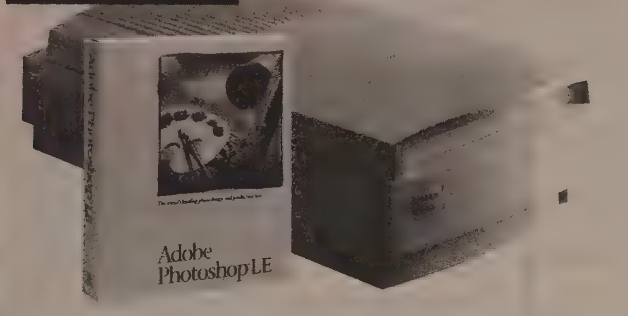
a scanner

800dpi for under $1000

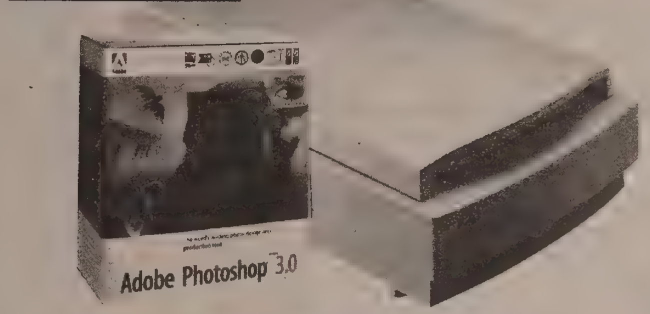


Umax Gemini D16 Scanner w/ Trans Adapter & Photoshop LE

Single-pass, 30-bit color flatbed scanner with 9600dpi enhanced resolution and up to 800 x 800dpi optical resolution. Combines the best features of a flatbed scanner and a transparency scanner. Comes with Adobe Photoshop LE image editing software, NewSoft Presto! PageManager for copying, faxing, OCR & filing, and SCSI interface card, cable & terminator. Drivers for Windows 3.1, Windows95, Windows NT4, Macintosh, and Power Macintosh.

Grand Opening Price **$999**

Incredible 36-bit Color

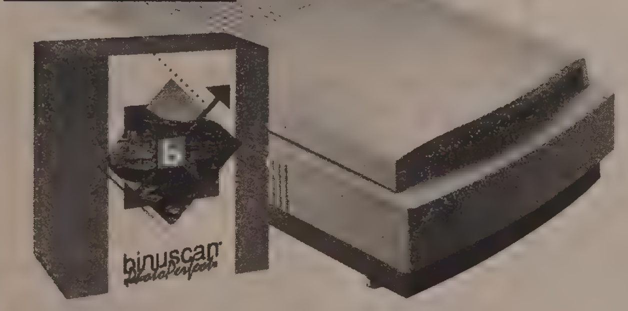


Umax PowerLook 2 Scanner with Trans Adapter & Photoshop

Single-pass, 36-bit color flatbed scanner with 9600dpi enhanced resolution and 600 x 1200dpi optical resolution. Outstanding 3.2 dynamic range for great quality color scans. Comes with Adobe Photoshop 3.0.5, Kai's Power Tools SE, binuscan PhotoPerfect Advanced, and a SCSI interface card, cable & terminator. Drivers for Windows 3.1, Windows95, Windows NT4, Macintosh, and Power Macintosh.

Grand Opening Price **$2199**

1000dpi Optical Resolution

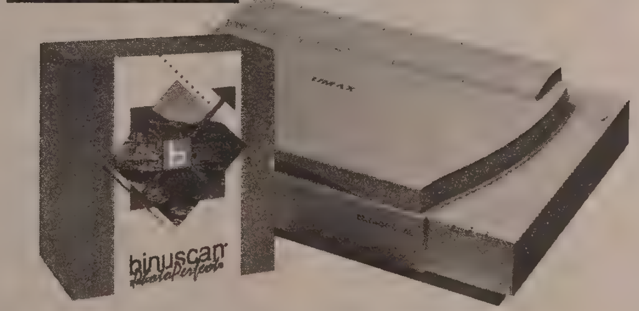


Umax PowerLook 2000 w/ Trans Adapter & PhotoPerfect

Single-pass, 36-bit color flatbed scanner with 10,000dpi enhanced resolution and 1000 x 2000dpi optical resolution. Unbeatable 3.3 dynamic range for true pre-press quality. Comes with Binuscan PhotoPerfect Master color correction software, Adobe Photoshop 3.0.5, Kai's Power Tools SE, and a SCSI interface card, cable & terminator. Drivers for Windows 3.1, Windows95, Windows NT4, Macintosh, and Power Macintosh.

Grand Opening Price **$4799**

12" x 17" Imaging Area



Umax Mirage D16L w/ Trans Adapter & PhotoPerfect

Single-pass, 30-bit color flatbed scanner with 9600dpi enhanced resolution and up to 800 x 1600dpi optical resolution. Scans originals up to 12" x 17", or 32 slides at the same time! Comes with Binuscan PhotoPerfect Master color correction software, Adobe Photoshop 3.0.5, Kai's Power Tools SE, and a SCSI interface card, cable & terminator. Drivers for Windows 3.1, Windows95, Windows NT4, Macintosh, and Power Macintosh.

Grand Opening Price **$5499**

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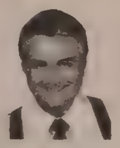
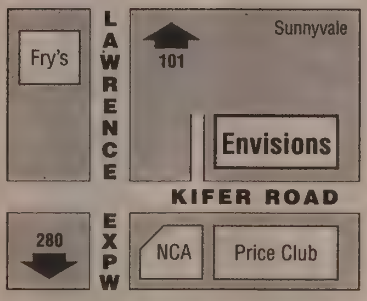


envisions scanner showroom



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Industry Insights *continued from page 22*

MICROTIMES INDEX ROCKETED HIGHER IN SEPTEMBER

EXCH	COMPANY	TICKER SYMBOL	CLOSING PRICE 08/27/96	CLOSING PRICE 09/26/96	NET CHANGE IN PERIOD	PERCENT CHANGE IN PERIOD	P/E RATIO	ANNUAL IVIDEN RATE	ANNUAL IVIDEND YIELD	ANNUAL HIGH	ANNUAL LOW
	SOFTWARE										
OTC	Adobe	ADBE	35.88	38.63	2.75	7.67	38	0.20	0.52	74.25	28.50
OTC	Autodesk	ACAD	21.75	26.63	4.88	22.41	20	0.24	0.90	48.00	18.50
OTC	Borland	BORL	7.69	6.88	-0.81	-10.57	-	0.00	0.00	21.25	6.06
OTC	Informix	IFMX	24.00	30.25	6.25	26.04	41	0.00	0.00	36.75	16.88
OTC	Microsoft (H)	MSFT	124.75	132.00	7.25	5.81	38	0.00	0.00	138.63	79.88
OTC	Novell (L)	NOVL	11.00	11.88	0.88	7.95	36	0.00	0.00	19.25	10.00
OTC	Oracle (H)	ORCL	38.25	42.38	4.13	10.78	43	0.00	0.00	44.50	23.38
OTC	Software Publishing (L)	SPCO	1.44	1.94	0.50	34.78	-	0.00	0.00	4.75	1.19
OTC	Symantec	SYMC	10.13	11.13	1.00	9.88	-	0.00	0.00	30.88	8.75
	HARDWARE										
OTC	Apple	AAPL	24.81	22.38	-2.44	-9.82	-	0.00	0.00	42.50	16.00
OTC	AST Research (L)	ASTA	5.56	4.75	-0.81	-14.61	-	0.00	0.00	10.75	4.00
NYS	Compaq (H)	CPQ	56.75	62.88	6.13	10.79	21	0.00	0.00	66.38	35.88
NYS	Digital Equipment	DEC	37.25	36.63	-0.63	-1.68	-	0.00	0.00	76.50	30.50
OTC	Dell (H)	DELL	64.25	77.13	12.88	20.04	22	0.00	0.00	87.50	23.00
NYS	Hewlett-Packard	HWP	45.25	47.00	1.75	3.87	19	0.48	1.02	57.75	36.88
NYS	IBM	IBM	111.75	124.38	12.63	11.30	21	1.40	1.13	128.88	83.13
NYS	Silicon Graphics	SGI	23.88	22.13	-1.75	-7.33	34	0.00	0.00	38.75	20.00
OTC	Sun Microsystems	SUNW	53.75	65.00	11.25	20.93	27	0.00	0.00	67.13	26.38
NYS	Xerox (H)	XRX	55.63	53.00	-2.63	-4.72	-	1.16	2.19	58.25	39.88
NYS	Tandy	TAN	44.13	41.88	-2.25	-5.10	18	0.80	1.91	62.13	34.13
	CPU'S										
NYS	Advanced Micro Devices	AMD	12.38	15.25	2.88	23.23	-	0.00	0.00	32.88	10.25
OTC	Intel (H)	INTC	81.50	97.38	15.88	19.48	23	0.20	0.21	98.50	49.81
NYS	LSI Logic	LSI	22.50	24.38	1.88	8.33	14	0.00	0.00	62.50	17.00
NYS	Motorola	MOT	54.25	52.13	-2.13	-3.92	19	0.48	0.92	79.38	44.75
	COMMUNICATIONS										
NYS	AT&T	T	53.63	52.00	-1.63	-3.03	208	1.32	2.54	68.88	49.25
NYS	BellSouth Corp.	BLS	37.50	36.50	-1.00	-2.67	18	1.44	3.95	45.88	35.25
OTC	MCI	MCIC	27.00	25.63	-1.38	-5.09	28	0.05	0.20	31.13	22.38
NYS	Northern Telecom (H)	NT	50.38	58.75	8.38	16.63	29	0.52	0.89	58.88	31.50
NYS	Pacific Telesis	PAC	33.00	33.13	0.13	0.38	13	1.26	3.80	35.25	25.88

KEY: NYS = NEW YORK ASE = AMERICAN OTC = OVER THE COUNTER
(H) = NEW HIGH REACHED IN PERIOD (L) = NEW LOW REACHED IN PERIOD

MARKET DIARY:

ADVANCES	18
DECLINES	11
UNCHANGED	0
NEW HIGHS	7
NEW LOWS	3

MOST ACTIVE ISSUES:

LARGEST DOLLAR GAINER	Intel	$	15.88
LARGEST DOLLAR LOSER	Xerox	$	-2.63
LARGEST PERCENTAGE GAINER	Software Publishing	34.78	%
LARGEST PERCENTAGE LOSER	AST Research	-14.61	%

	CLOSE 08/27/96	CLOSE 09/26/96	NET CHANGE IN PERIOD	PERCENT CHANGE IN PERIOD
MICROTIMES STOCK INDEX	7072.77	7540.48	467.71	6.61
DOW JONES INDUSTRIAL AVERAGE	5711.27	5868.85	157.58	2.76
STANDARD & POOR'S 500 INDEX	666.40	685.86	19.46	2.92
N.Y.S.E. COMPOSITE	357.15	365.99	8.84	2.48
NASDAQ COMPOSITE	1149.02	1227.98	78.96	6.87

CLOSING QUOTES FOR GRAPH:

DATE	MICRO TIMES	DOW JONES
03/15/96	7381.90	5584.97
04/12/96	7227.29	5532.59
05/09/96	7897.34	5475.14
06/10/96	7822.17	5687.87
07/05/96	7191.39	5588.14
08/02/96	7037.62	5679.83
08/27/96	7072.77	5711.27
09/26/96	7540.48	5868.85

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Signs of low inflation sparked an impressive rally on Wall Street, sending the widely-watched Dow Jones Industrial Average to a new all-time high during the month ended September 26. The thirty blue-chip stock index leapt 157.58 points higher, or 2.76%, to a record 5868.85.

In comparison, the MicroTimes Stock Index rocketed higher as well last month. The box score for our indicator of twenty-nine stocks: up 467.71 points, or 6.61%, to 7540.48. The record high for the Microtimes Index is 7945.37 set on December 13, 1995.

Turning to stocks that make up the MicroTimes Index:

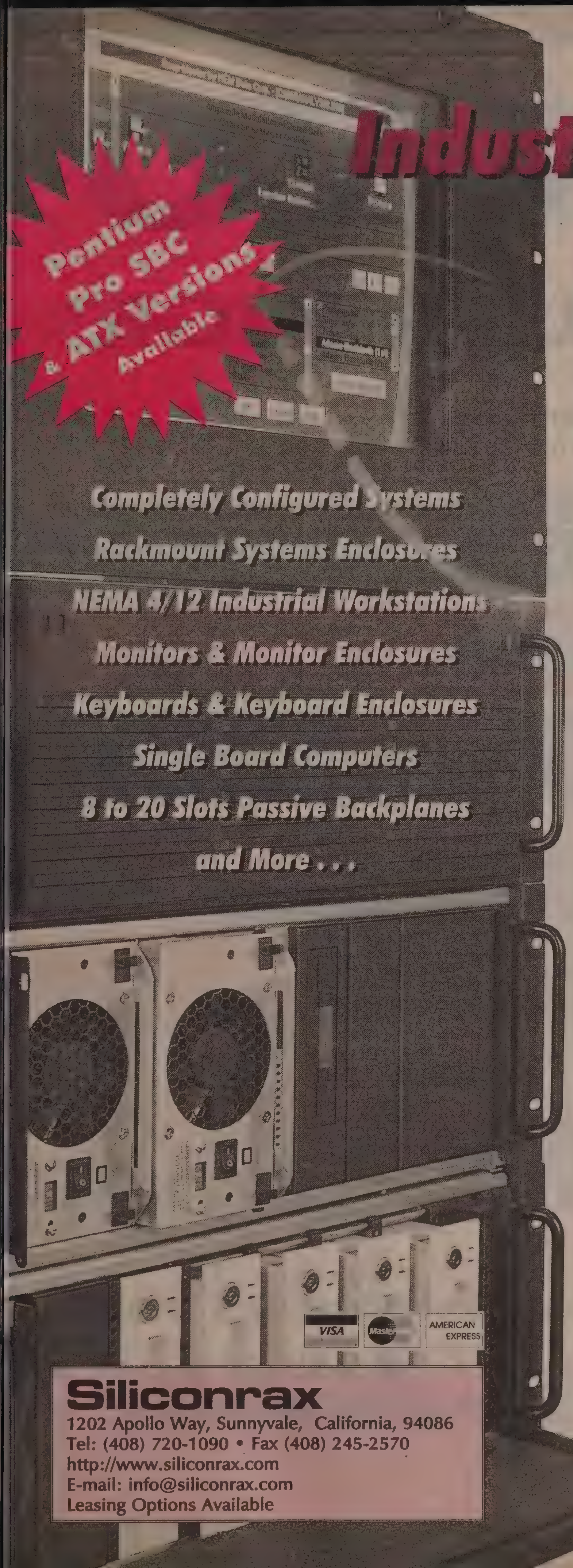
Dell Computer continued its white-hot performance last month, rising a robust $12.88 a share, or 20%, to close at $77.13, but not until it hit a new 52-week high of $87.50 during the period. The company said it knew of no reason for the stock's strength last month. The stock took flight in August after the company posted a 58% increase in second-quarter earnings to $103 million, which exceeded Wall Street's estimates by a huge margin.

Intel took largest dollar-gained honors last month, as its share price soared $15.88 a share to $97.38, after trading as high as $98.50. The reason for the bullish performance last month: the computer chip giant made upbeat comments with regard to its third-quarter earnings projections, sending other chip maker's share price higher. Advanced Micro Devices, for example, rallied a brisk 23.2% last month before pausing for rest and relaxation at $15.25. In other news regarding AMD, Wellington Management Co. disclosed that it now holds a 10.04% stake in the company.

Motorola bucked the uptrend in the MicroTimes Index and downticked $2.13 a share, or 3.9%, en route to a close of $52.13. The company shocked investors last month when it warned that its third-quarter profits may be lower than expected, due to sales downturns in its two primary markets: chip and cellular phone manufacturing.

The sun rose on Sun Microsystems last month, as its share price leapt $11.25 a share, or 20.9%, to conclude matters at $65.00. Alex Brown & Sons raised its calendar-year 1996 earnings estimate for Sun to $3.10 a share from $3.00 a share and raised its calendar-year 1997 earnings estimates to $3.75 a share from $3.61.

Computer Systems for Industrial Environments



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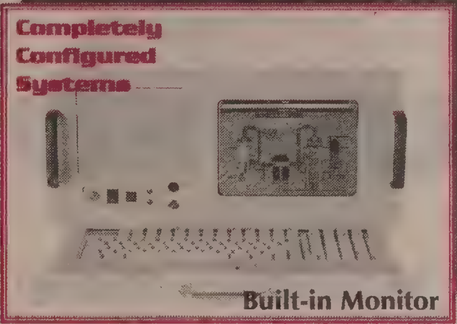
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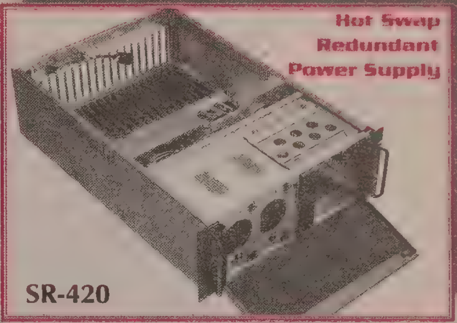
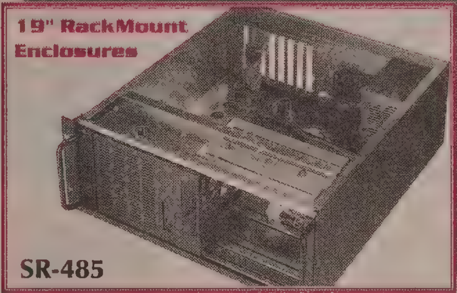

Hot Swap Redundant Power Supply

SR-420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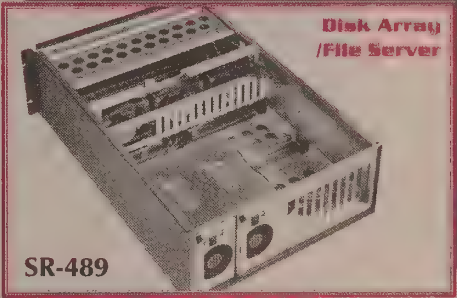
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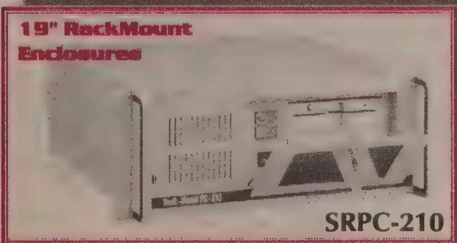
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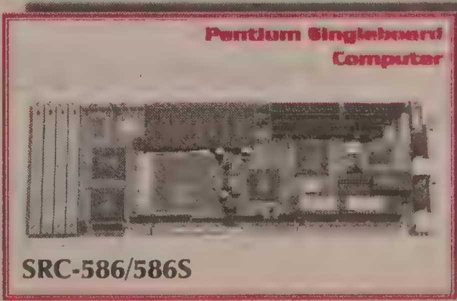
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Message To The High-Tech Community

Send A Nerd To Sacramento

I have been a computer engineer, scientist and executive in Silicon Valley for more than thirty years. Just like all of you, I worked hard to succeed in my career and contributed to making Silicon Valley what it is today.

We have indeed triumphed, as was pointed out in the recent PBS program *Triumph of the Nerds*. I was not featured in the show, but I was certainly there. I hired Bill Gates and Gary Kildall (before they were famous) as consultants to Hewlett-Packard to help my team build the best OS for the early palmtops; I introduced UNIX to HP by buying the first 32-bit license, I licensed Smalltalk '81 for HP from Xerox PARC, and I brought Andy Bechtolsheim from Stanford with the "SUN" board to HP for a potential technology transfer before SUN was established. I founded the Asilomar Microcomputer Workshop, now in its 24th year, and I still run the IEEE Computer Society's annual technical conference, COMPCON. Finally, I was among the first members of the MPEG technical committee representing HP. My evangelism about multimedia and interactive video resulted in HP getting in the Video Server business.

Triumph of the nerds in technology and business is only the first step in a long process. Now that we have successfully created an information industry that is causing a business revolution and becoming the world's foremost economic engine, much like the industrial revolution of the previous century, we must protect this industry from government regulation and other perils that threaten to suffocate it. I don't need to remind you about such issues as the "Communications Decency Act," encryption, escrow keys, digital wiretapping, FCC regulation/deregulation, government information access, profiting schemes from public information, taxing network transactions, frivolous lawsuits, etc., etc.

A few individuals like columnist Jim Warren, organizations like EFF (Electronic Frontier Foundation), and forums such as SAFE (Security and Freedom through Encryption) have been helpful in advocating and lobbying elected officials, with limited success. Once the advocacy slows down, legislators go back to their ignorance.

> The bottom line is that nerds must now triumph in government as well as we did in industry. It is the only way to protect the industry we worked so hard to create. We cannot triumph by being outside and lobbying. We must get inside government and work as insiders.

The bottom line is that nerds must now triumph in government as well as we did in industry. It is the only way to protect the industry we worked so hard to create. We cannot triumph by being outside and lobbying. We must get inside government and work as insiders.

I am soliciting your support and your help in making effective and constructive use of the Internet to promote my campaign and help send me to the California State Assembly. The network is a very powerful tool, available to us if we organize and use it effectively.

I will leave it up to each individual to decide how they can help. The key is to reach the Internet users in my District and convince them to vote for me, as well as to have them do some proselytizing among friends, neighbors, and relatives. There is also a form—"How you can help"—that you can click at the top page of my Web site (*http://www.crl.com/~laliotis*) that gives you additional options.

I hope to be the first successful high-tech practitioner in California state government and to be followed by many others once I blaze a trail. ■

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Ted Laliotis is the Republican candidate for California State Assembly in Silicon Valley's 21st District.

He has worked in the high-tech industry for the last three decades. Most recently, from 1977 to 1995, he served as R&D scientist and engineering executive at HP Laboratories; previously he worked in science, engineering, and management positions at IBM, Fairchild R&D, and a '70s startup called ASI.

He was elected to the Los Gatos City Council in 1991, where he served two terms, as well as a stint as mayor in 1991–1992. He's a charter member of Joint Venture Silicon Valley, and a member of the Los Altos and San Jose Chambers of Commerce.

You can reach him via his Web site, ***http://www.crl.com/~laliotis***, or via email at ***ted@laliotis.org***.

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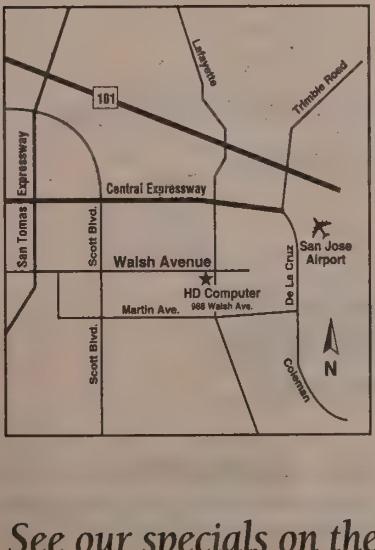
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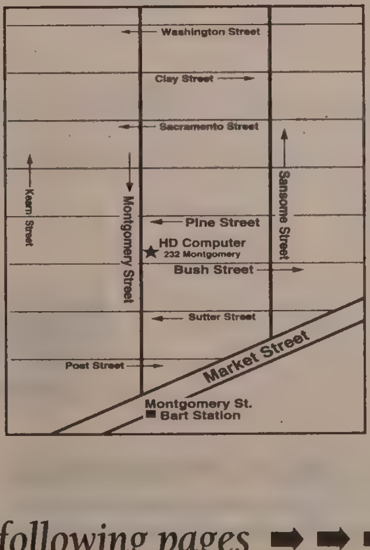
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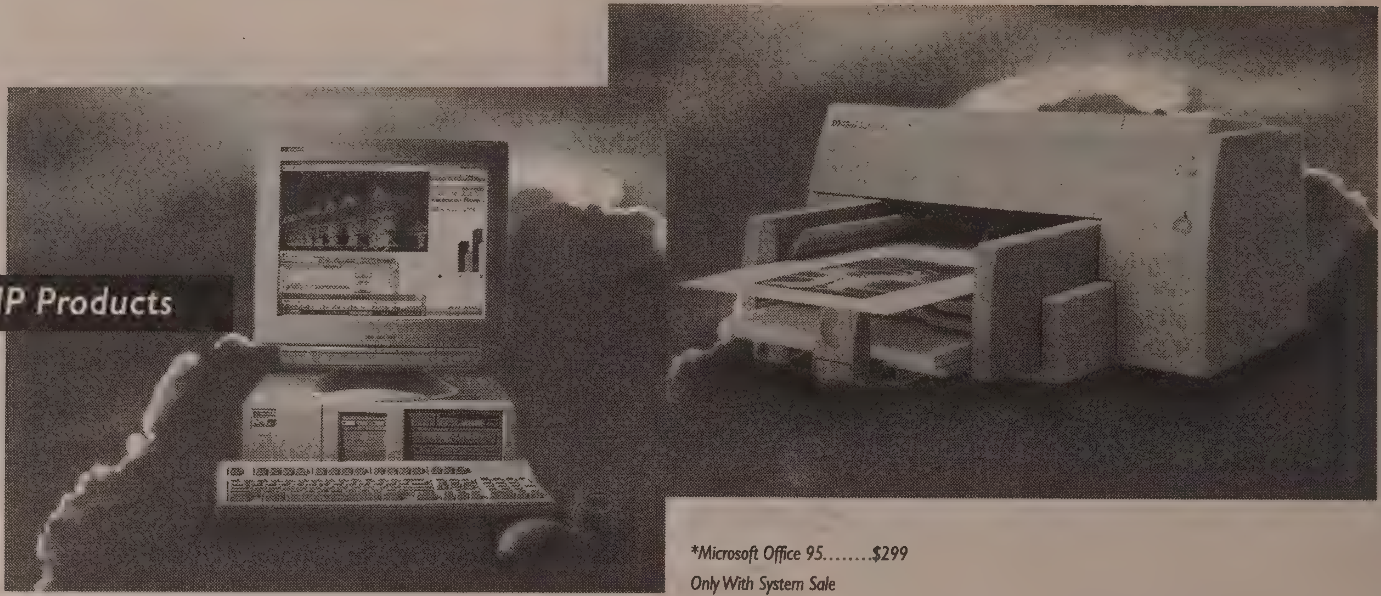

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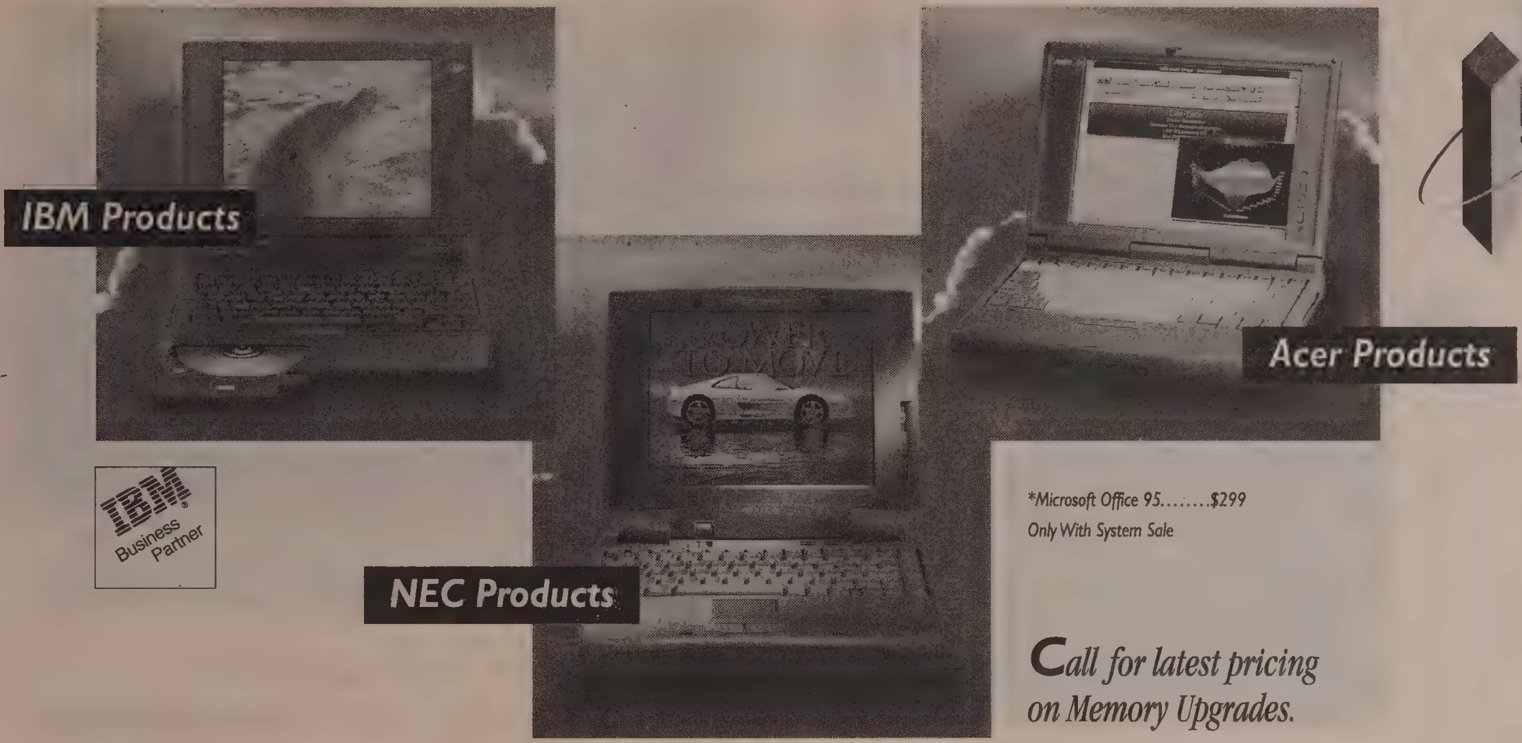

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- MS Windows 95
- 3 Year Limited Warranty

Model# 9559

$2289

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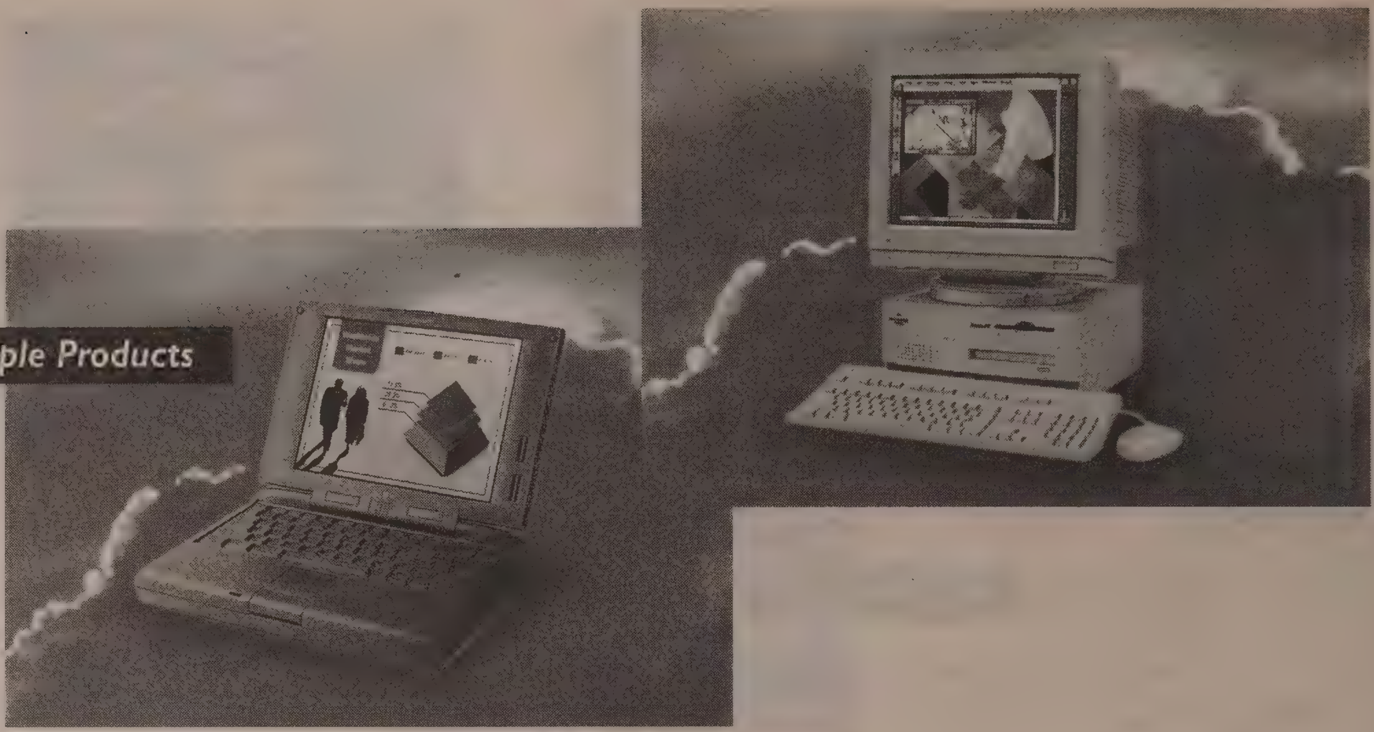
Apple Products



PowerBook 5300ce/117

- Power PC 603e 117Mhz
- 32MB RAM Exp. to 64MB
- 1.1GB Hard Drive/1.4MB FDD
- 2 Type II PCMCIA Slots
- 10.4" Active Matrix Color
- Built-in 16 Bit Sound
- Apple Trackpad
- 6.4 Lbs

Model# M3828LL/A

$4269

PowerMac 7200/120

- Power PC 601 RISC @ 120Mhz
- Upgradable to 200Mhz
- 16MB RAM Exp. to 256MB
- 1.2GB HDD/1.4MB FDD
- 8X CD-ROM Drive
- Built-in 1MB VRAM Graphics

Model# M4628LL/B

$2459

*Monitor & Keyboard not included

PowerMac 8500/150

- Power PC 604e RISC @ 150MHz (Upgradable to 250MHz)
- 256K Cache
- 16MB RAM Exp. to 512MB
- 1.2GB Hard Drive
- Apple Superdrive 1.4MB FDD
- 8X Speed CD-ROM Drive
- 16 Bit Stereo Input/Output
- Built-in 2MB VRAM Graphics (Exp. to 4MB)
- 24-bit Video Capture & Playback

Model# M5347LL/A

$3849

*Monitor & Keyboard not included

PowerMac 9500/200

- Power PC 604e RISC @ 200Mhz
- Upgradable to 250MHz
- 16MB RAM Exp. to 768MB
- 2GB HDD/1.44MB FDD
- 8X Speed CD-ROM Drive
- Built-in 2MB VRAM Graphics
- Plain Talk Microphone/Mouse

Model# M5397LL/A

$5229

*Monitor & Keyboard not included

Apple Accessories

Color Style Writer 1500	$399
Color Style Writer 2200	$419
Apple LaserWriter 12/640PS	$1599
Applevision 1710	$959
Applevision 1710AV	$1099
Apple Color One Scanner	$599
Apple Design Keyboard	$89
Apple Desktop Bus Mouse II	$79

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Purchase of Apple products must be made through an Apple-authorized VAR location only.

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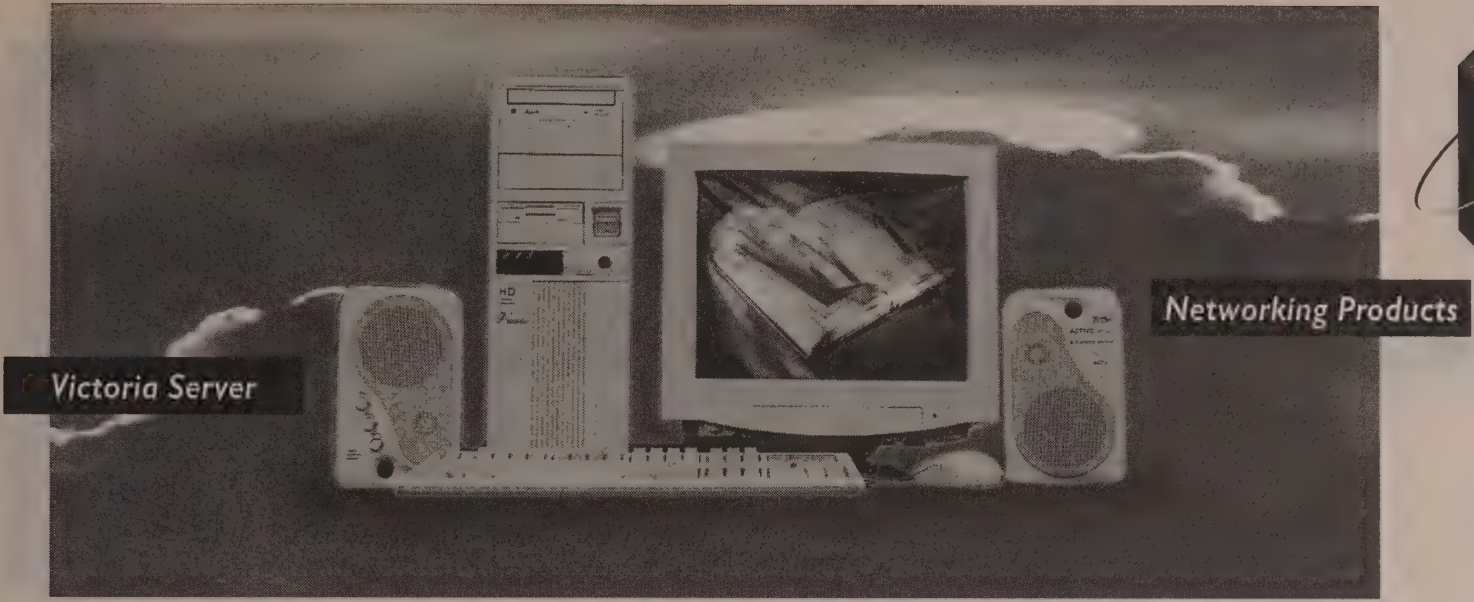

• Equipment is just representative of items sold.

Novell NetWare®

• 5 User 3.12	$795
• 5 User 4.1	$795
• 10 User 3.12	$1695
• 10 User 4.1	$1695
• 25 User 3.12	$2595
• 25 User 4.1	$2595
• 50 User 4.1	$3495
• 100 User 4.1	$4795
• 250 User 4.1	$8495

Victoria Ultra Server

Call for latest pricing on memory upgrades.

- **Intel Venus/Natoma ATX Motherboard w/256K Cache**
- Intel Pentium® Pro Processor & CPU Fan
- **64MB EDO Exp. to 256MB**
- 1.44 Floppy Disk Drive
- **Seagate 4.0GB Wide SCSI Hard Disk**
- **Adaptec 2940 PCI Wide SCSI Controller**
- **HP C1536 4.0GB SCSI Tape Drive INT**
- **6X SCSI CD-ROM INT**
- Spider Tarantula Lite PCI VGA w/1MB
- 2-16550 Serial Port & 1-Parallel Port
- Full Tower ATX Case w/Power Supply
- **Victoria 15" 1280x1024 Monitor**
- **Victoria 3-Button Serial Mouse & Pad**
- 104-Key Enhanced Keyboard
- MS DOS 6.22
- **Novell NetWare 4.1 25User (CD-ROM)**
- **3COM 3C905 PCI 100BT Ethernet Card**

200MHz **$6699**

Ethernet Adapters

INTEL

Etherexpress 16 16bit 5Pack	$575
Etherexpress 16 16bit 20pack	$1995
16bit Ethernet Combo PCLA 8100	$129
16bit Ethernet BNC PCLA 8110	$115
16bit Ethernet 10BT PCLA 8120	$115
16bit Ethernet Combo PCLA 8105/Flash	$159
Etherexpress 16 10BT/Combo	$99/115
Etherexpress Pro 10BT/Combo	$129/145
Etherexpress Pro PCI 10BT/Combo	$149/165
Etherexpress Pro 10/100 10BT	$129
Etherexpress Pro EISA 10BT	$295
Netport XL Combo Ethernet	$489

3COM

3C509 Etherlink III Coax/TP	$99
3C509 Etherlink III 5pack	$449
3C590 PCI Combo	$149
3C595 PCI 10/100 10BT	$189

SMC

Ether card plus elite 16 Coax/TP	$99/99
Elite Ultra 16bit Coax/TP	$115
Elite Ultra 16bit 6pack/24pack	$675/2375
SMC Ultra 16 Bit Ethernet Combo	$135
PCMCIA UTP	$199
32-bit PCI Full Duplex Combo	$159
32-bit PCI Full Duplex UTP	$139
32-bit PCI 4-Port UTP Full Duplex	$529
32-bit 10/100 PCI Adapter	$199
16-bit ISA Adapter	$119
PCI Ethernet Card	$129

DANPEX

EN-2400PB 16Bit BNC s/w	$42
EN-2400PT 16Bit 10BT s/w	$39
EN-2400P3 16Bit Combo 3-in-1	$47
EN-6200P2 1PCMCIA Combo	$150
EN-6000BT Pocket Lan 10BT	$135
EN-4001 4Port 10BT Hub	$125
EN-800A 8Port 10BT Hub	$155
EN-1212A 12Port 10BT Hub	$325
Modular Print-Server For Netware	$325

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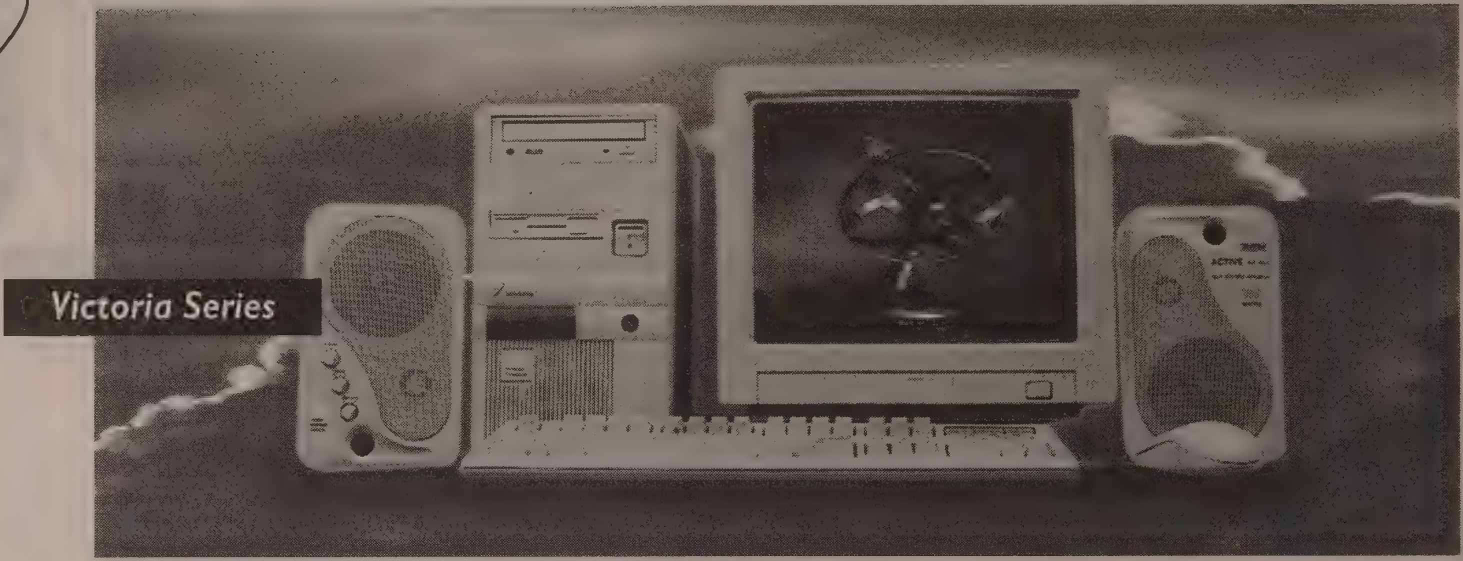

• Equipment is just representative of items sold.

- Victoria 15" 1280x1024 Monitor $279 *(Only from October 15 – November 15, 1996)*
- Victoria 3-Button Serial Mouse $29

Victoria White NT Server

- **Intel Venus/Natoma ATX Motherboard w/256K Cache**
- Intel Pentium® Pro Processor & CPU Fan
- **64MB EDO Exp. to 256MB**
- 1.44 Floppy Disk Drive
- **Seagate 2.0GB SCSI Hard Disk**
- **Adaptec 2940 PCI SCSI Controller**
- **HP C1534 2.0GB SCSI Tape Drive INT**
- **6X SCSI CD-ROM INT**
- Spider Tarantula Lite PCI VGA w/1MB
- 2-16550 Serial Port & 1-Parallel Port
- Full Tower ATX Case w/Power Supply
- **Victoria 15" 1280x1024 Monitor**
- **Victoria 3-Button Serial Mouse & Pad**
- 104-Key Enhanced Keyboard
- **MS Windows NT Server 4.0 (5 Licenses)**
- **3COM 3C905 PCI 100BT Ethernet Card**

200MHz	**$4499**

Victoria Magenta Work Station

- **Asus Triton Pentium® Motherboard**
- **256K Pipeline Cache Ext. to 512K**
- Intel Pentium® Processor & CPU Fan
- **16MB Exp. to 128MB**
- 1.44 Floppy Disk Drive
- **Seagate 850MB EIDE Hard Disk**
- **8X EIDE CD-ROM INT**
- **Diamond Stealth 64 PCI w/2MB DRAM**
- PCI Enhanced IDE Controller
- 2-16550 Serial Port & 1-Parallel Port
- Desktop Case w/230w Power Supply
- **Victoria 15" 1280x1024 Monitor**
- **Victoria 3-Button Serial Mouse & Pad**
- 104-Key Enhanced Keyboard
- **MS Windows 95**
- **NE-2000 16BIT Ethernet Card**

75MHz	**$1245**
100MHz	**$1295**

Victoria Yellow

- **Asus Triton Pentium® Motherboard**
- **256K Pipeline Cache Ext. to 512K**
- Intel Pentium® Processor & CPU Fan
- **16MB Exp. to 128MB**
- 1.44 Floppy Disk Drive
- **Seagate 1.2GB EIDE Hard Disk**
- **8X EIDE CD-ROM INT**
- **Diamond Stealth 64 PCI w/2MB DRAM**
- Sound Blaster 16 + 50 Watt Speaker
- PCI Enhanced IDE Controller
- 2-16550 Serial Port & 1-Parallel Port
- Mid Case w/230w Power Supply
- **Victoria 15" 1280x1024 Monitor**
- **Victoria 3-Button Serial Mouse & Pad**
- 104-Key Enhanced Keyboard
- **MS Windows 95**
- **US Robotics Sportster 28.8 INT**

100MHz	**$1499**
120MHz	**$1549**
133MHz	**$1599**
150MHz	**$1649**
166MHz	**$1749**

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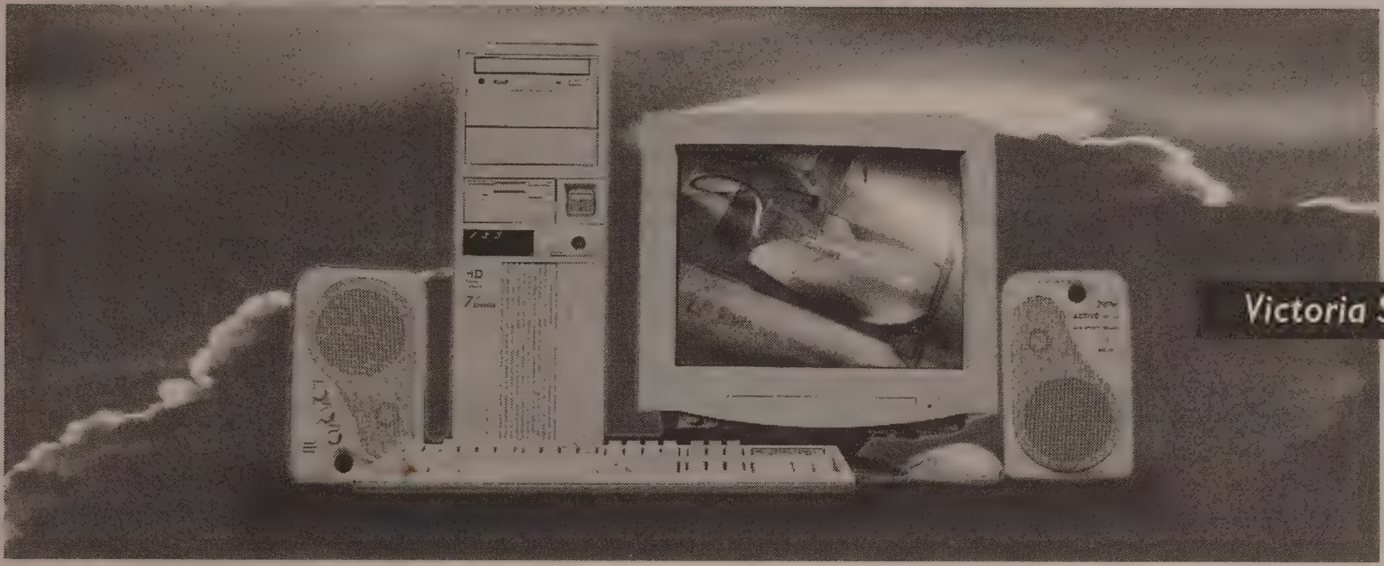

Victoria Series

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*Microsoft Office 95........$299
Only With System Sale

• Victoria 15" 1280x1024 Monitor $279 (Only from October 15 – November 15, 1996)
• Victoria 3-Button Serial Mouse $29

Victoria Gray

- **Asus Triton II Pentium® Motherboard**
- **256K Pipeline Cache Ext. to 512K**
- Intel Pentium® Processor & CPU Fan
- **16MB Exp. to 128MB**
- 1.44 Floppy Disk Drive
- **Seagate 1.2GB EIDE Hard Disk**
- **8X EIDE CD-ROM INT**
- **Diamond Stealth 64 PCI w/2MB DRAM**
- Sound Blaster 16 + 50Watt Speaker
- PCI Enhanced IDE Controller
- 2-16550 Serial Port & 1-Parallel Port
- Mid Case w/230w Power Supply
- **Victoria 15" 1280x1024 Monitor**
- **Victoria 3-Button Serial Mouse & Pad**
- 104-Key Enhanced Keyboard
- **MS Windows 95**
- **US Robotics Sportster 28.8 INT**

133MHz	**$1649**
150MHz	**$1699**
166MHz	**$1799**
200MHz	**$2149**

Victoria Red

- **Intel Atlantis Pentium® Motherboard**
- **256K Pipeline Cache Ext. to 512K**
- Intel Pentium® Processor & CPU Fan
- **16MB EDO Exp. to 128MB**
- 1.44 Floppy Disk Drive
- **W.D. 2.0GB EIDE Hard Disk**
- **8X EIDE CD-ROM INT**
- **Built-in PCI VGA w/2MB DRAM**
- Built-in 16 BIT Sound
- 50Watt Speaker
- PCI Enhanced IDE Controller
- 2-16550 Serial Port & 1-Parallel Port
- Mid Case w/230w Power Supply
- **Victoria 15" 1280x1024 Monitor**
- **Victoria 3-Button Serial Mouse & Pad**
- 104-Key Enhanced Keyboard
- **MS Windows 95**
- **US Robotics Sportster 28.8 INT**

133MHz	**$1669**
150MHz	**$1719**
166MHz	**$1819**

Victoria Blue

- **Intel Marl Triton II Pentium® Motherboard**
- **256K Pipeline Cache Ext. to 512K**
- Intel Pentium® Processor & CPU Fan
- **16MB EDO Exp. to 128MB**
- 1.44 Floppy Disk Drive
- **W.D. 2.5GB EIDE Hard Disk**
- **8X EIDE CD-ROM INT**
- **Diamond Stealth 64 PCI w/2MB VRAM**
- Sound Blaster 16 + 50Watt Speaker
- PCI Enhanced IDE Controller
- 2-16550 Serial Port & 1-Parallel Port
- Mid ATX Case w/Power Supply
- **Victoria 15" 1280x1024 Monitor**
- **Victoria 3-Button Serial Mouse & Pad**
- 104-Key Enhanced Keyboard
- **MS Windows 95**
- **US Robotics Sportster 28.8 INT**

133MHz	**$1919**
150MHz	**$1969**
166MHz	**$2069**
200MHz	**$2419**

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NEC

8Xi SCSI Internal	$349
8Xe SCSI External	$439

PLEXTOR

6xi SCSI Internal	$299
8xi SCSI Internal	$339

TEAC

6xi SCSI Internal	$179
8xi EIDE Internal	$129

TOSHIBA

8xi EIDE Internal	$129

CONTROLLERS

ADAPTEC

1522A ISA/SCSI Fast w/Kit	$132
1542CP Bus Master w/Kit	$233
2940 PCI/SCSI w/Kit	$249
2940UW Ultra Wide PCI	$299
3940 Twin Channel PCI	$399
3940W Twin Channel PCI Wide	$479
PCMCIA SLIM SCSI	$289

FAX MODEMS

US ROBOTICS

Sportster 28.8 INT/EXT	$169/199
Sportster 28.8 vi INT/EXT	$199/219
Courier 28.8 INT/EXT	$389/419
US Robotics ISDN	$399

ISDN MODEMS

3 COM

3 COM ISDN 3C871	$460
3 COM ISDN Fax Modem 3C872	$590

MONITORS

VICTORIA

15" 1280x1024	$309

IIYAMA

Vision Master 17"	$769
Vision Master-Pro 17"	$829
Vision Master 21"	$1799

MONITORS

MAG

DX1495 1024x768	$299
DX1595 1280x1024	$459
DX15T 1280x1024	$489
DX1795 1280x1024	$699
DX17T 1280x1024	$859
MXP17F 1600x1280	$899
MXP21F 1600x1280	$1899

NANAO

F2 17"	$879
F-2 17" EX	$995
T-2 17" TS	$1025
T-2 17"	$1299
T2 20"	$1979
F2 21"	$1919
FX2 21"	$2995

NEC

XV15+	$499
XV17+	$829
XP17 1280 x 1024 76HZ	$1095
XE21 1028 x 1024 .28 76HZ	$1895
XP21 1600 x 1200 76HZ Opticlear	$1995

NOKIA

447L 1024x768 .28 w/Built-in Speaker	$715
447X	$949
445X-059 1600x1280 .26	$1995
445X-058 1600x1280 .26	$2145

PROTON

Proton 14"	$235
Proton 17"	$595

SONY

GPD 15SX 1280x1024	$429
GPD 15SF2 1280x1024 .25	$489
GPD 17SF2 1280x1024 .25	$819
GPD 17SE II 1600x1280 .25	$1069
GPD 20SF2 1600x1280 .25	$1699
GPD 20SE1/P 1600x1280 .25	$1945

VIEWSONIC

15ES 1024x768	$379
15GS 1280x1024	$439
15GA 1280x1024 w/Built-in Speakers	$499
17EA 1280x1024w/Built-in Speaker	$659
17GS 1280x1024	$699
17PS 1600x1280	$869
20G 1600x1280	$1259
20PS 1600x1280	$1479
21PS 1600x1280	$1649
GT 770 1280x1024	$795
PT 810 1600x1280	$1995

MOTHERBOARDS

INTEL

w/200MHz CPU

Venus/Notoma w/256K	$1099

w/0 CPU

Atlantis w/2MB Video w/Sound w/512K Pipeline	$319
Atlantis w/2MB Video w/Sound w/256K Pipeline	$299
Marl w/256K Pipeline	$199
Tucson w/512K Pipeline	$239
Tucson w/256K Pipeline	$219

ASUS (w/o CPU)

Triton II Dual EISA PCI w/512K	$629
Triton II w/512K Pipeline	$219
Triton II w/256K Pipeline	$199
Triton w/256K Pipeline	$189

MOUSE

VICTORIA

Victoria 3-Button Serial Mouse	$39

LOGITECH

Logitech Mouseman	$55
Logitech Bus Mouse	$65
Logitech Trackball	$74

SOUND CARDS

CREATIVE LABS

Sound Blaster 16 PNP	$89
Sound Blaster 32 PNP	$149
Sound Blaster AWE 32 PNP	$239
Modem Blaster 28.8 Ext	$159
Modem Blaster 28.8 PCMCIA	$259
Graphics Blaster MA201	$79
Graphics Blaster MA302	$149

TAPE DRIVES

HEWLETT PACKARD

4-16GB C1533A Internal/External	$899/999
Mounting Kit	$29
C1534A 2GB DAT Tape Backup Internal/External	$599/699
C1536A 4GB DAT Tape Backup Internal/External	$699/799

TAPE DRIVES

HP / COLORADO

DJ-35 350MB/Internal	$99
DJ-25 700MB	$109
DJ-50 1.5GB Internal	$229
T1000 400-800MB Internal/External	$189/235
FC-20 Controller	$89

VIDEO CARDS

ATI **(OEM.....$, bundled with hardware only)**

Graphics Ultra Pro 64 PCI/2MB	($209)
Graphics Ultra Pro 4 PCI/4MB	($329)
Expression PCI w/2MB	($159)

DIAMOND

(OEM.....$, bundled with hardware only)

Stealth 64 PCI/2MB VRAM	($199)
Stealth 64 PCI/4MB VRAM	($319)
Stealth 64 PCI/2MB DRAM	($99)
Stealth 64 PCI/1MB DRAM	($89)

MATROX

Millennium PCI 2MB WRAM	$269
Millennium PCI 4MB WRAM	$389

NUMBER NINE

#9 Motion 771 PCI 2MB VRAM	$259
#9 Motion 771 PCI 4MB VRAM	$329
#9 Motion 331 2MB	$149
#9 Imagine 128 PCI 2MB	$359
#9 Imagine 128 PCI 4MB	$469

SPIDER

Tarantula Lite 64 PCI 2MB DRAM	$69
Tarantula Lite 64 PCI 1MB DRAM	$59

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★ USE A SEPARATE FORM FOR MORE THAN ONE SYSTEM CONFIGURATION.

# OF IN-HOUSE SYSTEMS____________________________
# OF EMPLOYEES ____________________________

SYSTEM	☐ AMD 486 ☐ INTEL 486 ☐ INTEL PENTIUM ☐ INTEL PENTIUM PRO
CLOCK SPEED	☐ 66 MHz ☐ 75 MHz ☐ 80 MHz ☐ 90 MHz ☐ 100 MHz ☐ 120 MHz ☐ 133 MHz ☐ 150 MHz ☐ 166 MHz ☐ 180 MHz ☐ 200 MHz
BUS FOR PENTIUM®	☐ PCI/ISA ☐ PCI/ISA (Dual CPU) ☐ PCI/EISA (Dual CPU)
BUS FOR 486	☐ PCI/ISA ☐ PCI/VL/ISA ☐ VL/ISA ☐ EISA/VL
CACHE	☐ 128 K ☐ 256 K ☐ 512 K ☐ 1 MB ☐ PIPELINE
MEMORY	☐ 4 MB ☐ 8 MB ☐ 16 MB ☐ 32 MB ☐ 64 MB ☐ 128 MB ☐ 256 MB ☐ EDO
CASE	☐ DESKTOP ☐ TOWER+230W ☐ MINI+230W ☐ MINI-MID+230W ☐ MID+230W ☐ FULL+230W
KEYBOARD	☐ 104 KEY ☐ MS NATURAL
FLOPPY A	☐ 1.2 MB ☐ 1.44 MB ☐ DUAL ☐ 2.88 MB
FLOPPY B	☐ 1.2 MB ☐ 1.44 MB ☐ DUAL ☐ 2.88 MB
HARD DRIVE	☐ 540 MB ☐ 850 MB ☐ 1.0 GB ☐ 1.2 GB ☐ 1.6 GB ☐ 2.0 GB ☐ 4.3 GB ☐ 9.0 GB
CONTROLLER	☐ IDE ☐ E-IDE ☐ SCSI ☐ PCI ☐ EISA ☐ VLB
I/O PORT	☐ 2S1P ☐ 2S1P1G ☐ 2S/16550/1EPP
VIDEO CARD	☐ MGP ☐ SVGA ☐ VLB ☐ PCI ☐ 1 MB ☐ 2 MB ☐ 4 MB ☐ 8 MB ☐ DRAM ☐ VRAM
MONITOR	☐ 14" ☐ 15" ☐ 17" ☐ 20" ☐ 21"
FAX MODEM	☐ EXTERNAL ☐ INTERNAL ☐ 14.4 ☐ 28.8 ☐ 33.6 ☐ ISDN ☐ VOICE
TAPE BACKUP	☐ EXTERNAL ☐ INTERNAL ☐ AT BUS ☐ DAT 2 GB ☐ DAT 4 GB ☐ SCSI ☐ 350 MB ☐ 700 MB ☐ 800 MB ☐ 1.4 GB
CD-ROM	☐ EXTERNAL ☐ INTERNAL ☐ 4X ☐ 6X ☐ 8X
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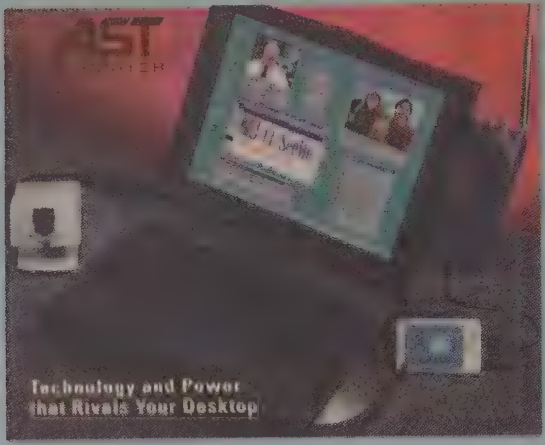

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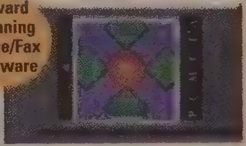

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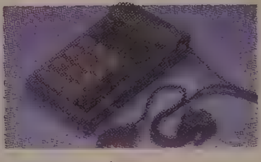

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LAPTOPS • BY ED KAHN

Sceptre LT12S

A Stand-alone Flat Panel Monitor

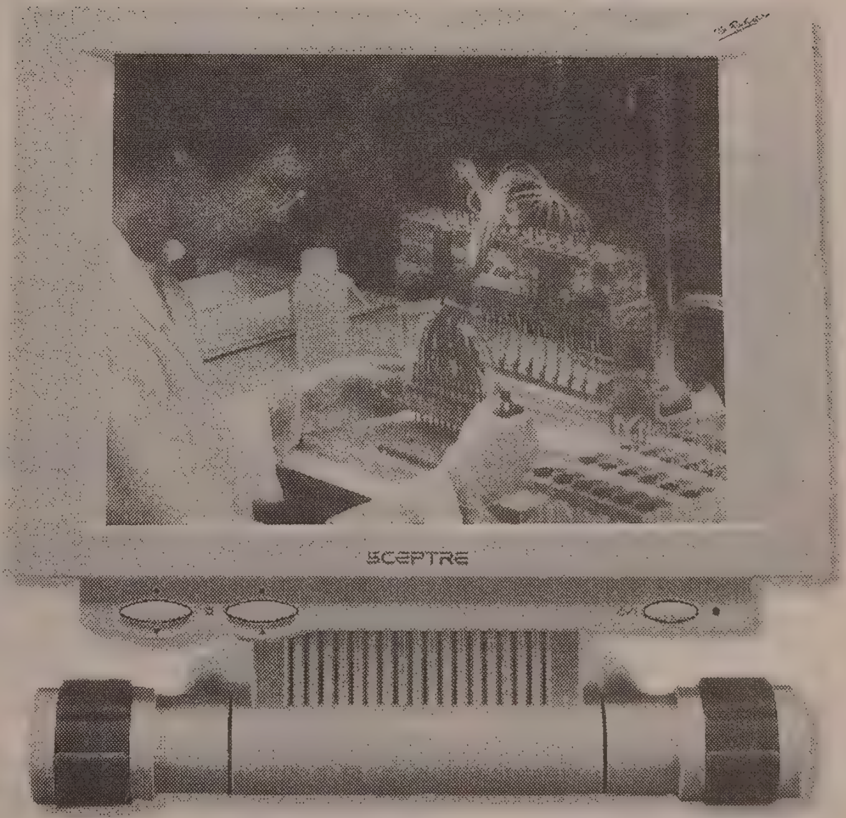
It is true that, over the years, a constant array of fairly astonishing changes have been made to computers. In this environment, after only a couple years I feel the need to begin looking into upgrading my computer system to keep pace with the technological advances.

However, there has been one part of computer systems that has changed much more slowly—and that is the display. Before, when I bought a good monitor I always believed that it would survive for several rounds of new computers. The one "big" change I made was to a larger display.

This is not to say there have been no advances in displays. Indeed, there have been: Size, resolution, and energy efficiency have all significantly improved over the years. But most of us are still using a basic CRT, even though there are clearly problems with this technology—weight, radiation, health, safety issues, and static electricity are among the problems often cited.

Portable computers, on the other hand, have been following a different track. For example, color displays were introduced even before they were as clear as a good CRT. But technological advances have usually followed to overcome the problems. Recently, portables and laptops have been introduced with 12.1" displays. While these are smaller than the big CRTs that sit on our desks, they are crystal-clear and bright.

I would have predicted that, by now, high-quality flat panel displays used in laptops would have dropped in price and appeared as stand-alone monitors to compete with CRTs. Even though there are a number of advantages to flat panel monitors, CRTs still dominate the market.



This month, I want to take a look at Sceptre's LT12S, a stand-alone, 12.1" flat panel monitor. It is just as wonderful as I have imagined. The display weighs under 3 lbs., measures about 10" x 13", and is less than an 1.5" thick. It comes on a base that weighs another 6 lbs., but you have the option of easily removing the LCD panel from the base.

It sets up like a typical monitor—you plug the power supply in and connect the cable to your computer. This also means that you can easily use it with a portable computer. I found this monitor terrific for setting up a second display so the person I am working with could also see the screen without having to look over my shoulder.

When I connected the monitor to my portable, the image was smaller than the full size of the screen. This is because the Sceptre monitor has a resolution of 800 x 600 and my little portable only puts out 640 x 480. When I connected to my desktop system, the image filled the entire screen. In either case, the display was beautifully clear. It was interesting to compare the image on the Sceptre LT12S with the image on the older portable I use. The Sceptre image was noticeably clearer and brighter than my

Laptops *continued...*

portable of a few years ago. This is a good measure of the progress that has been made in LCD displays over the past few years.

Sceptre makes other models of this flat panel display. One of them requires the use of a card, which comes with the display. The advantage here is that it does not need a power supply. This facilitates hanging the panel on the wall. A single cord is all that connects to the monitor. The disadvantage is that you cannot easily move the monitor from computer to computer, nor can you use it with a notebook computer because there is no place to install the card. Sceptre also has flat panel displays in 14", 15", and 17" models. As you might expect, these are quite a bit more pricey than the 12.1" model that I evaluated.

For the traveler, it may be feasible to leave the base for the display behind. This cuts down on the weight considerably. On the other hand, if you have the room, the unit works beautifully on the base that comes with it.

> **The Sceptre image was noticeably clearer and brighter than my portable of a few years ago. This is a good measure of the progress that has been made in LCD displays over the past few years.**

There are many advantages to a flat panel display. First, it is easy to move from location to location as it weighs only a few pounds. Second, it takes up much less space on a desk. Third, it completely removes the question of radiation associated with CRTs. Fourth, there is no warm-up time required. You flip the switch and the image appears on the screen. And, finally, it offers a clear advantage for environments in which static electricity and magnet fields are a problem.

Like so many technologies of the future, th is a first step. I feel confident that within a fe years, as resolution improves this will becon the dominant technology for displays. In tim the price is sure to come down. If you can't wa for the price to drop, this is a good entry poir The Sceptre LT12S sells for considerably le than competing models I have seen. While tl stand-alone model sells for $2795, the mod that requires the card sells for less than $2000.

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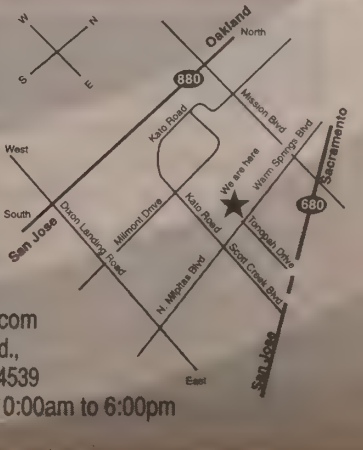

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Guidelines For Buying A Notebook Computer

Avoiding Portable Pitfalls

So you have finally decided to take the plunge! It's time to buy a notebook computer. There is no simple answer to the question of which notebook computer is the best choice for people ready to buy their system. In order to give any useful feedback when someone asks me this question, I have to ask the prospective buyer a number of questions. In this column, I will try to give some pointers for making an intelligent purchase that will get you the system that best suits your needs.

There are several general guidelines that will serve you no matter what your needs are. The single most important advice I can give is to buy a computer that you will be able to get serviced in years to come. I can't tell you how many laptops I have seen that are not able to be fixed because the company either does not support the model or was made by a small company that is no longer in business. The size of the company, unfortunately, is not necessarily a good measure. Several years ago, AT&T, who made a really wonderful portable, purchased NCR, a huge computer company. The AT&T models were superseded by newer and, in my opinion, inferior machines. Soon the public stopped buying the NCR notebooks and AT&T simply dropped out of the portable business. Getting parts is not impossible, but it takes quite a bit of sleuthing to get to the right desk in this mammoth corporation.

With smaller companies, getting parts is often nearly impossible once they exit the notebook marketplace. People used to working with desktop machines often overlook the fact that even portables that are advertised as modular use proprietary parts. This means that you cannot go to the corner computer store and get your portable fixed unless that store has access to just the right part. Of course some of the parts may be generic, but cases, keyboards, hard drives, floppy drives, display panels, and many other parts must have exact replacements.

So before you buy, make sure that you have confidence that the company will both be around and willing to support your computer. Eventually even the best of the portables will need repair and it is really a shame to have to abandon a perfectly good machine that needs an essential small part.

After you decide on the brand you want to buy, you have a range of options open to you. You must know what you want the computer to do. Do you want a high-end computer that will handle multimedia applications or do you want a simple computer that will let you run your word processor when you are away from your desktop computer? If you want an entry-level notebook, here again, you have a range of options. You could buy a used machine for several hundred dollars or buy a new, entry-level machine for about $1500. The advantage of the new machine is that no matter how inexpensive it is, it will probably come with Windows 95 and enough memory to support it. I have an older portable that works well with Windows for Workgroups, but I know I can never really upgrade it to work with the newer version of Windows because the hard drive is too small and it cannot hold more that 12MB of RAM. So while it works well for me, it is simply not as powerful as a new model. However, it works great for what I use it for: running a word processor and checking my email when I am on the road.

> **The single most important advice I can give is to buy a computer that you will be able to get serviced in years to come.**

The minimum configuration for a new notebook should include 16MB of RAM, at least a 340MB hard drive, the ability to use an external keyboard and an external monitor, a PCMCIA slot, and a crisp color display. Even the inexpensive models these days have good displays. You can move up in any of the areas I outlined, but don't move down unless you are buying a used machine at a bargain price.

As you move up the price scale, you will begin to find systems with larger hard drives, CD-ROM players, built-in microphones and stereo speakers, as well as larger and better LCDs. Many of the models are available with docking stations. This lets you install one or more cards, install additional drives such as a tape drive, and to more easily connect and disconnect to peripherals like printers, full-size monitors, pointing devices, and keyboards. Docking stations are marketed primarily to

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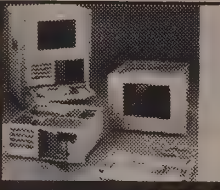

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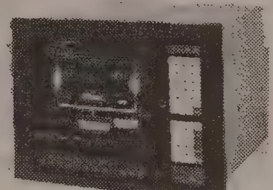

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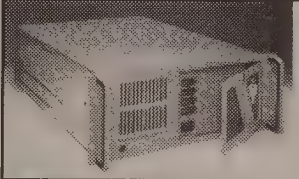

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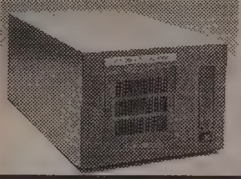
RACK MOUNT ENCLOSURE



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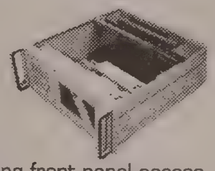

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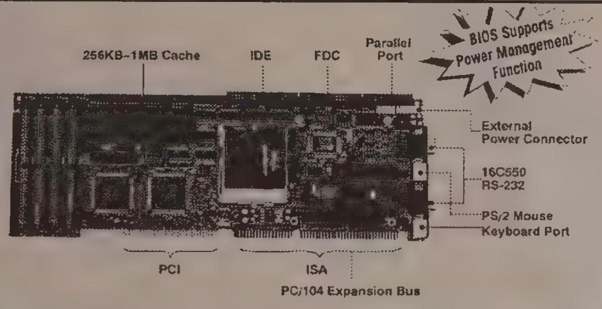

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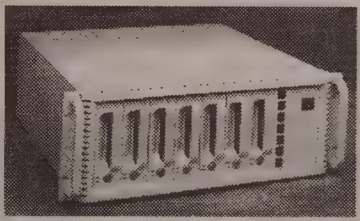

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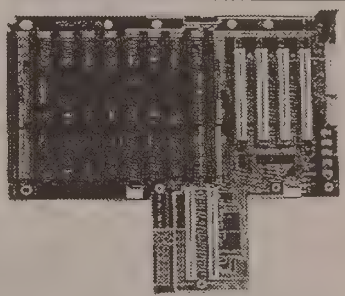
RACK MOUNT RAID ENCLOSURE



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Laptops *continued...*

people who have decided to use their portable as their only computer. They get the advantage of a large display and good keyboard when they are at their primary location and the flexibility of taking their computer with them when they are on the go.

Another consideration is the kind of pointing device your portable has. I still prefer a mouse to all of the other devices I have tried, but this is simply not practical when you are seated on an airplane. There are several other options available in portables today. The first is a trackball. This is a sphere mounted in a socket that you move to move the pointer. It works well if the ball is large enough. If the ball is too small, it is extremely difficult to get the pointer just where you want it. A second device commonly found is something that looks like a pencil eraser and sits in the middle of the keyboard. You push this flexible gadget one way or another to move the pointer on the screen. I like these devices only moderately well. The final device appearing on portables is a trackpoint pad that is situated just below the keyboard. You slide your finger over the pad and the pointer moves on the screen. A good trackpoint work well, but not all of them are created equal. Be sure to try it out before you buy. Make sure that the pointer is easily visible. Some machines are designed poorly and you end up not being able to find the pointer on the screen.

People used to working with desktop machines OFTEN overlook the fact that even portables that are advertised as modular use proprietary parts.

In all cases, make sure you can install a standard mouse in addition to a standard keyboard for when you are working at your primary location. The mouse still works best for many users and the addition of a good keyboard will overcome any compromises you have to make with a notebook keyboard.

A final pointer is not to wait until the next generation of computers hits the market. This is a rapidly changing field and no matter when you buy, your computer will be superseded in months. The bottom line, however, is that the computer you buy today should give you years of good service. Even the old portables that work well have lots of use left in them. ■

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CPU MHz & SPEED: ○ PENTIUM PRO ○ PENTIUM ○ 486
○ DX4 ○ DX2 ○ DX ○ 5X86 ○ 6X86 ○ Quadra ○ PowerPC
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CACHE ○ 64K ○ 128K ○ 256K ○ 512K

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POINTING INPUT DEVICES: ○ Any Mouse ○ MS Mouse ○ Keyboard
○ Serial ○ Bus ○ PS2 ○ Trackball ○ Joystick ○ Ball Point ○ Pen

OPERATING SYSTEM NEEDED: ○ Windows 95 ○ OS2/Warp
○ Win NT ○ Mac ○ UNIX ○ DOS/Windows 3.11

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NETWORKING • BY PETER J. HARRISON

LAN Administrators Toolkit

Some Of The Necessary Tools And Parts To Fix The Most Common Computer Problems

If you administer a LAN that people use to get their work done, it does not matter if you have two computers or twenty online. When one of those computers goes down, it is your job to get it going again, and the sooner you can do it, the better. One way to make sure you can keep the computing environment running smoothly is to assemble a toolkit with a few basic tools and supplies that can help you resolve many common computer problems.

One of the more common problems computers have these days are dead mice. Desktop rodents do a lot of running around, wearing down their internal parts and picking up lint and dust that obstruct the light path between the light transmitter and receiver pairs that are used to figure out which direction they are being moved. So, two of the things I keep near the top of my toolkit are a can of compressed air and a spare mouse. Then, when I come across a mouse that is not tracking well, I turn it over, remove its tracking ball, and try blowing out any accumulated dust. If that does not fix it, I just replace the mouse. (I have found, by the way, that Mouse Systems Corporation makes great replacement mice for both MS-DOS/Windows and Macintosh systems at a very reasonable price.)

Mice are not the only place where dirt can build up and cause problems. Keeping an extra keyboard around for those occasions when keys start sticking or stop clicking properly can save your users from hours of needless frustration. Thus, whenever a user starts having keyboard problems, I quickly change the keyboard. Then I take their old, dirty keyboard home and wash it in my kitchen sink with hot (but not scalding) soapy water and a soft scrub brush, then give it a good, long rinse. After giving it a couple days to dry out, I hook it up to another computer and give it a test-drive. Washing a keyboard out like this removes the junk that accumulates in the keys—everything from dust and loose hair to old staples and finger nail clippings—but it does not hurt the keyboard's electronics. Three out of four times a good cleaning will not only fix the keyboard, but make it look "as good as new," something your LAN users will appreciate when you replace the next defective keyboard you encounter with a recently reconditioned one. Just remember to be very careful not to plug a damp keyboard into a working computer system—doing so can ruin not only the keyboard, but also the computer to which you connect it.

> Two of the things I keep near the top of my toolkit are a can of compressed air and a spare mouse.

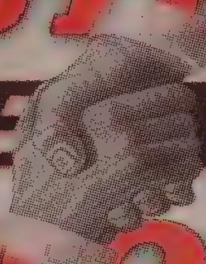
Another source of trouble on many LANs is lost, forgotten, deleted or mis-configured software. After administering a LAN for a while you discover that it pays to have a ready copy of each and every software driver and application package your users should have access to stashed away somewhere where you can get to it easily. What I used to do to keep these installation sets at hand was copy all the diskettes to private directories on my server system, but that took up a lot of valuable disk space, and could potentially have lead to problems with software piracy.

These days, however, I have found that if I keep an Iomega Zip or Syquest EZ135 external hard drive handy, I can carry an extensive library of software on just a couple 3.5" removable disks. That way I do not have to worry about online server disk space, software piracy, or the computers I need to fix not having a working connection to the network for me to access the software I need to fix them—something that is particularly helpful if it is the networking software I need to fix.

Once you have a ZIP or EZ135 drive, you will find that an external hard drive that connects via a PC's printer port (or via a Mac's SCSI port) has lots of other uses, too. They are great for backing up laptops before they go out on the road, making archive copies of old software and data, and keeping complete "clean disk" copies of each workstation's hard drive. Clean disk copies allow you to wipe a system clean, then re-install its original software after an employee leaves or your kid crashes a system so badly that there is nothing left but to re-format the drive and start over.

With many software packages arriving on CD-ROM, having a drive that you can attach to a non-CD-ROM-enabled desktop and laptop system has become almost a necessity. This is particularly true of software packages like Windows 95, which comes on a single 127MB CD-ROM—meaning the install set is larger than

COMPUTER CARE NEWS



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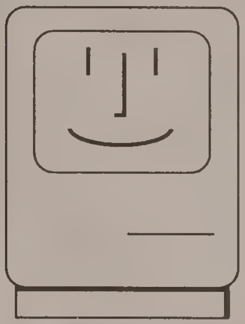

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Networking *continued...*

even a 100MB Iomega Zip drive can hold. So one of the tools in my kit is an external CD-ROM drive.

Another thing I like to keep in my toolkit is a selection of cables and connectors. Having keyboard, mouse, and monitor extension cord cables, for example, can quickly fix a computer for a user who has moved their computer off the desk and onto the floor, but can not keep it working because the keyboard cable keeps pulling loose. Extra LAN, telephone, and modem cables of various lengths come in handy, too, for everything from adding new systems to the LAN to users who want to move their computers just a few feet further than the cable will reach, to the occasional LAN cable that gets tripped over and no longer works.

Speaking of tripping over things, I like to keep a collection of cable ties to bundle cables together and hitch them up and out of the way of peoples' feet under their desks. I also keep a roll of 2" tape around so I can tape cables to the carpet or floor to prevent people from catching their feet on them as they walk by—protecting both the computers and the people who use them.

Add to this collection of computing odds-and-ends a couple of screw drivers, extra floppy disks, printer supplies, and a diskette drive cleaning kit, and you have a working toolkit that will help you quickly solve many of your user's most common problems. ■

> Washing a keyboard removes the junk that accumulates in the keys—everything from dust and loose hair to old staples and finger nail clippings—but it does not hurt the keyboard's electronics.

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RESOURCES:

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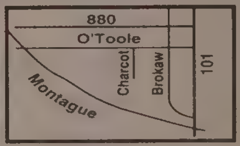

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TELECOMMUTING • BY ROBERT MOSKOWITZ

Unbelievers In Our Midst

A Reply To The (Current) Major Arguments Against Telecommuting

Certainly, there are still people in this world who praise telecommuting so faintly that they appear opposed to its benefits and advantages. And of course, there are outright devil's advocates who look hard to find fault with telecommuting and all it represents. As an unashamed proselytizer for the good life that telecommuting can bring, I'd like to discuss the arguments that both these schools of unbelievers are advancing.

- **Argument 1: Telecommuting is not now growing, and in fact never has grown, as fast as predicted. Therefore, it's terribly flawed.**

By some counts, the raw number of telecommuters failed to grow from 1994 to 1995, and in fact declined by anything from 5% to 11%, depending on whose numbers you are using. This appears to be the first time growth in the ranks of telecommuters has ever turned negative. Yet it's frequently cited as evidence that the trend toward telecommuting has peaked and is now locked into a downward slope.

In declining to accept this assessment, I'd like to say that even if the numbers are accurate, a one-year drop provides no proof there has been a change in the overall trend. Few trends continue in a straight line, and since no one disputes the strong growth trend evident in the ranks of telecommuters during the past two decades, I'd say one year's figures are far from conclusive.

But I'll go even further. I'll question the accuracy of the numbers themselves—not just the numbers for the most recent year, but all the numbers bandied about during the past five or even ten years.

With so many known instances of telecommuters setting themselves up to work from home on an unofficial or "guerrilla" basis, asking companies to report on the number of employees who telecommute may be like asking employers how many of their sales and field agents sometimes work at home—you're going to get a vastly understated figure.

In addition, there have been no widespread reports of companies intentionally curtailing their telecommuters, no mention of wholesale downsizings among telecommuters, and no announcements that departments once sent home to telecommute are now being recalled to the office.

> Non-telecommuters often do feel jealous, but mainly because telecommuting provides a major improvement in working conditions. And since it actually saves the employer money—unlike posh offices and higher salaries that cost extra—telecommuting ought to be expanded to as many people as possible.

Thus, I'm wondering exactly which million or so telecommuters secretly gave up the practice during the last year? And why?

- **Argument 2: Telecommuting's advantages are not really so great, so why bother to shift away from our established mode of working?**

Although telecommuting provides numerous, significant, and almost immediate advantages to the individual and family, to the employer, and to society, there are academics and management consultants who actively argue that its advantages are narrow and weak.

For example, I read a recent article stating that telecommuting does not reduce workers' travel by 12%, but only about one-half of one percent (0.5%). This sounds so negligible that readers must be expected to conclude telecommuting offers very little of real value.

But a percentage is meaningful only in relationship to its basis—the number it is a percentage *of.* So let's look a little closer at the numbers:

Does anyone dispute that if you consistently stay home to do your work one day a week, you're going to travel 20% fewer miles to the office? Sure, you might drive places for other reasons on your telecommuting days, and most analysts do include these categories of mileage in their calculations. But driving that's unrelated to your job doesn't change the basic issue of how many miles you're driving (or not driving) to work.

If you're doing other work-related driving on your telecommuting days, you're still saving miles. The only plausible scenario in which you won't save work-related miles on telecommuting days is when all your destinations are located along a straight line drawn from your home to your office and beyond, and all lie on the far side of your office. If these destinations are off the straight line, you'll save miles by "cutting off the angle." If they're closer than the office, you'll save miles outright.

So if we analyze the mileage savings attributable to telecommuting this common-sense way,

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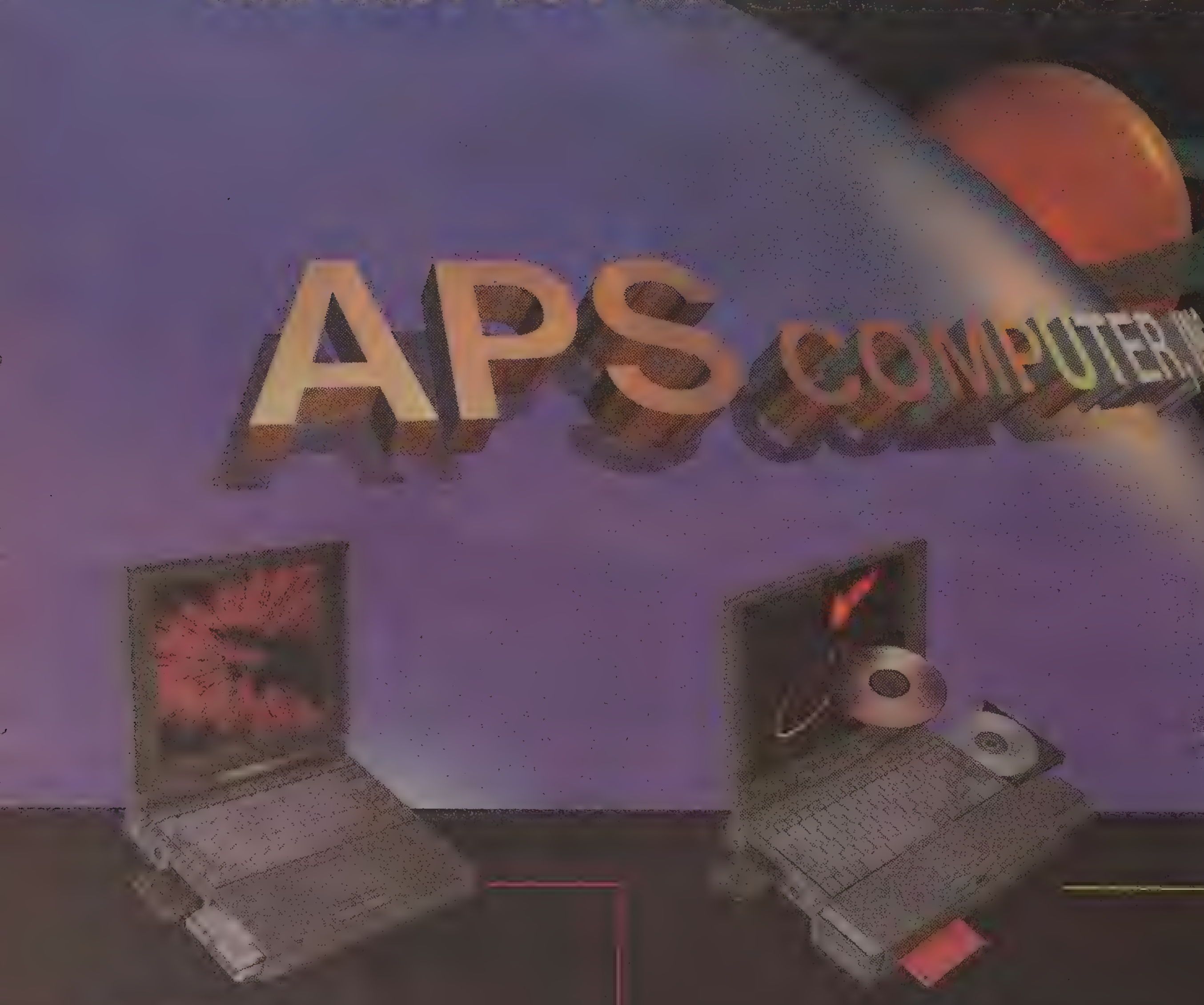
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Telecommuting *continued...*

it's clear there's some advantage. But how big is it? Let's consider the percentages.

The most obvious case would be a straight deduction of the miles you no longer drive to and from work. If you work five days per week, fifty weeks per year, each day you stay home to work gives you a 0.4% savings in miles. So if you telecommute from home one day a month, you'll save 4.8% of your miles driven to work during the year. If you telecommute one day a week, you'll save 20%.

The only plausible way the miles saved by your telecommuting would amount to only 0.5% would be if three conditions are met: First, we're considering both your business and your pleasure driving, which for Americans totals an average of about 12,000 miles per year. Second, the average trip to work is only 2.5 miles each way, while in California the average distance to work is 16.5 miles each way. Third, the average telecommuter works from home only once a month, although this pattern is relatively uncommon compared to the pattern of telecommuting two, three, or four times a month.

You can juggle the variables any way you want, and a mileage savings of only 0.5% still comes out to be highly implausible. For example, if you were to telecommute just 2.5 miles each way as often as one day a week, you'd have to drive 50,000 miles per year to limit your savings to just 0.5%. If your commute is ten miles each way, telecommuting just once a month would require 48,000 miles of driving annually to keep your savings down to the 0.5% figure.

What's the point of all this math? To show that no matter what the figure, figures don't lie. Savings from telecommuting logically and necessarily must be significant. The calculations that hold true for miles driven to work also apply to the bills for cleaning work clothes and for lunches eaten at restaurants or cafeterias, as well as to the time spent commuting and the energy and enthusiasm drained away in those commutes.

The naysayers seem to have taken a page out of the Pentagon play book, which often argues that, sure, building the B-2 bomber or Bradley Fighting Vehicle does cost $XX billion, but *not* building it would cost even more!

• Argument 3: The problems of telecommuting outweigh the advantages.

During the last few months I've been accosted by at least half-a-dozen journalists looking for material to fill their assigned articles on "the downsides" of telecommuting. Searching out a new angle, I guess, these investigators have been eager to pounce on every concern or imperfection and blow it up to a headline-sized problem.

Here are their major revelations, with brief explanations:

Telecommuting costs too much.

For many who oppose telecommuting, the process inevitably requires a major investment in office furniture, files, and lighting, as well as many new telephone lines, and expensive personal computers.

In truth, a great deal of productive work can

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Telecommuting *continued...*

be accomplished via telecommuting that doesn't require much beyond paper, pencil, and (perhaps) a telephone. But even if you need all that expensive equipment, most of it can be rented by the month for far less than the cash savings telecommuting will generate.

Telecommuting feeds feelings of isolation.

One of the most heralded problems of telecommuting, feelings of isolation, is frequently portrayed as a dangerous side-effect of sending people out of the natural work environment: the office. The only cure is to let them back inside, where they belong.

But these feelings of isolation can be viewed with equal validity as the natural squinting and disorientation anyone feels immediately after a working lifetime of blinkers and physical restraints are removed—like a newly released prisoner shielding his eyes from the sun after stepping outside for the first time in many years.

Please remember that few telecommuters remain away from the office continuously. Most telecommute only one or two days a week, so they have plenty of opportunities to renew acquaintances and maintain office relationships.

> Asking companies to report on the number of employees who telecommute may be like asking employers how many of their sales and field agents sometimes work at home—you're going to get a vastly understated figure.

What's important is not whether newly appointed telecommuters immediately feel isolated, but whether they still feel isolated six months or a year later—and whether or not they want to go back to working in the office every day.

Telecommuting makes other workers jealous.

Since telecommuting makes others aware they can't work at home, goes the same argument in a different guise, it creates motivational and other emotional problems. The only cure is to remove the telecommuting privilege from everyone.

But if logical, this argument would also force employers to eliminate posh offices, executive washrooms, preferred parking, and higher salaries for the top brass—all of which make others who don't get these perks feel jealous.

Another way to look at the same evidence is that non-telecommuters often do feel jealous, but mainly because telecommuting provides a major improvement in working conditions. And since it actually saves the employer money—unlike posh offices and higher salaries that cost extra—telecommuting ought to be expanded to as many people as possible.

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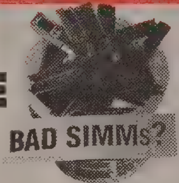

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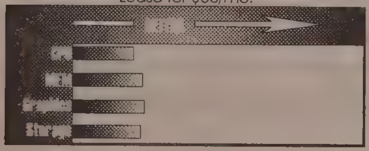

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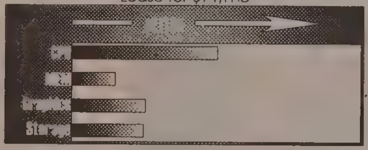

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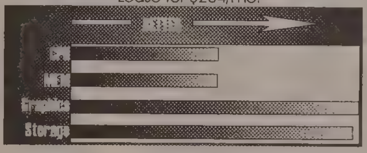

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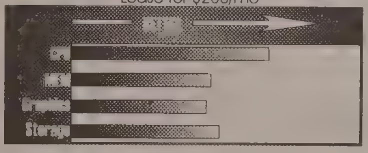

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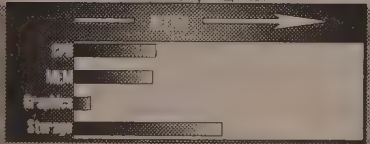

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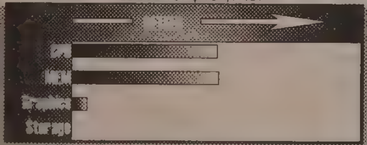

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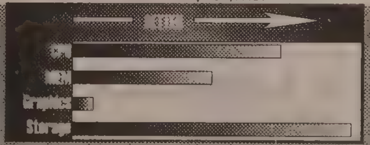

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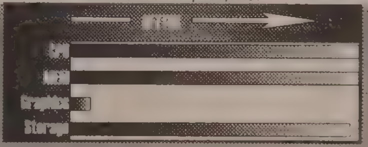

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If your view is that employees need to be prodded to meet their commitments and produce their deliverables, then telecommuting is a danger not just to productivity, but to all of society.

In fact, however, telecommuters tend to be among the most productive, most responsible, and most successful employees in an organization. I'm not sure if this is because telecommuting makes them more productive, responsible, and successful, or because only such employees are allowed to telecommute.

Whatever the reason, laziness tends to be one of the least plausible worries for those who supervise actual telecommuters.

Telecommuting takes you out of the loop for recognition, raises, and promotions.

Along the lines of "out of sight, out of mind," it seems logical that working away from the office would make a telecommuter fall out of line for opportunities and rewards rationed out to other, eager faces seen more often around the office.

But where's the evidence for this? Aside from a few anecdotal stories—and who can't produce a few people who honestly feel they have been passed over because of any particular reason you care to study?—we're looking at another "bogey man" argument.

Investigations have consistently shown no significant differences in the quantity or quality of raises, promotions, and opportunities given to telecommuters, compared with those given to employees who work only in the company's offices.

Handing out goodies to those you see most often may be the management style in elementary school, but businesses tend to have performance objectives and job requirements that individuals must meet. How many supervisors will fail to notice that a telecommuter is meeting these objectives, particularly if offered reminders from time to time?

I would argue that if successful performance fails to win attention and appropriate rewards, your job is more in jeopardy from bad management than from telecommuting, and it's probably prudent to start looking for another position before the whole company goes under.

I'd be happy to hear from anyone on these or related points, particularly if you can show me where I've gone wrong in my thinking. If you have a different point of view, please let me know.

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As work progresses on many individualized fronts toward building an economy and society more supportive of modern work methods, particularly telecommuting, we're likely to see lots of innovative offerings.

One I've just learned about comes from atelier 4 Architecture (a4A), which I mentioned some time ago as the first online provider of ergonomic consulting services. Capitalizing on their expertise in that area, I suppose, a4A has come up with a plan for installing user-friendly environments in hotels, airports, train stations, office buildings, retail settings, and

continued on page 220

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UNIX • BY BENNETT FALK

Hapless And The End Of Time

Or: The Year 2000 Problem, The Sequel

Note: This column was submitted from the Cafe Orbital, an Internet Access Cafe facing the Jardin du Luxembourg in Paris.

A few kilometers east of Paris, at the Disneyland Hotel, there is a section of the third and fourth floors that is sealed off from the rest of the hotel. No stairs lead to this section, and the only access is via a private elevator accessible only to holders of a privileged card key.

> "Last week, one of my engineers set the time on this computer for 10 seconds to midnight on December 31, 1999. And ten seconds later, it was midnight, January 3, 1980." He paused to let this sink in.

Occasionally, at the whim of the card key reader, even holders of the privileged keys are unable to summon the elevator, leading to the spectacle of disgruntled dignitaries or hotel staff polishing their cardkeys with any handy cloth or jiggling them in the obstinate, brass-plated slot.

The Founder's Room is located in this section of the hotel.

The Founder's Room at the Disneyland Hotel is a rectangular room. The windows down one long wall look out over the entrance to Main Street, U.S.A. and the elevated train station from which steam trains depart three or four times an hour to circle the park.

From its decor, the Founder's Room appears to be a library. Bookshelves line three of its walls, and each shelf presents a colorful row of book spines. But there are too many books, they are too uniform, and they sit on the shelves in rows that are much too straight.

A closer look reveals that the books are not books at all, but wood trim painted to look like leather-bound volumes of Balzac, Diderot, Hugo, or Voltaire. Indeed, the shelves to which these fake books are attached are not genuine bookshelves; they are simply paneling.

Opposite the windows that look out on Disneyland itself, large sections of bookshelves, mounted on rollers, conceal a buffet-style food service that can be changed surreptitiously from breakfast to lunch to snack to dinner without disturbing the people meeting in the Founder's Room. At the appropriate moment, the bookshelves are slid discreetly aside, permitting those assembled to dine. When the meal is over, the bookshelves are replaced to conceal the mess.

And it was in this unlikely location with the fake bookshelves rolled aside that our peripatetic friend Hapless found himself. He was sipping coffee in the company of a group of people seated around a U-shaped table finishing up a pleasant lunch in the Founder's Room at the Disneyland Hotel outside Paris.

Hapless, having begun his career several years ago with simple lessons in AWK, was now conferring with a group of Information Technology specialists from some two dozen U.S. and European companies. Hapless turned to a Swiss gentleman sitting next to him and indicated the incongruous white mug containing a single shot of espresso. "This may be the largest coffee cup I've had in Europe," he said.

"But my friend, you're not *in* Europe," the Swiss replied.

The End Is Near

As Hapless puzzled over this remark, a tall American with bushy eyebrows rose to his feet and tapped the side of his wine glass with a fork to get everyone's attention. "Before we go our separate ways, I'd just like to ask," he remarked, "if the other companies represented here have programs in place to verify that all their information processing tools are 'Year 2000' compliant."

Heads around the room nodded sagely. The little train outside sounded its whistle, clanged its bell, and left the station.

The American picked up a notebook computer that was folded shut in front of him. "Let me tell you," he said, waving the computer for emphasis, "I've had a shocking demonstration of the Year 2000 Problem with this machine right here.

"Last week, one of my engineers set the time on this computer for ten seconds to midnight on December 31, 1999. And ten seconds later, it was midnight, January 3, 1980." He paused to let this sink in.

"Pretty obviously, it's not enough to confirm

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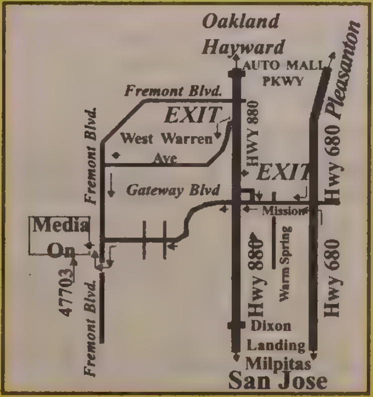
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UNIX *continued from page 66*

that your *applications* are Year 2000 compliant. You have to verify that your *hardware* and your *operating systems* will do the right thing, too.

"On top of all that, The Change will occur over a three-day weekend. That means there may not be anyone around to restart your computers, so you should know ahead of time what happens when the clock just rolls over the new year without a reboot."

There were grim looks around the table as people began wondering how to write "Year 2000 Compliance" into the requirements for hardware they had yet to purchase.

"It's not just our computers," the American continued. "I'm sure I won't have to remind anyone who's used the elevator to this room how many devices have microprocessor controls embedded in them, and we can't afford for those devices to become inoperative when we roll over into the year 2000."

The American paused again. The Swiss genleman seated next to Hapless had been jotting down some numbers on a piece of scrap paper and now looked up to ask in a loud, clear voice: "And if you make it into the year 2000, what then do you propose to do about the year 2038?"

"2038?" the American replied.

"Yes, 2038," the Swiss confirmed, looking at the calculations on his scrap of paper. "At 12 minutes and 44 seconds after 3 a.m. on the morning of February 5 in the year 2038, time will end."

The American smiled uneasily. "Well," he said, "where I come from, we don't place much faith in the predictions of Nostradamus."

The Swiss smiled back. "Oh, this is nothing so superstitious as that.

"Wait a minute. Are you telling me that UNIX computers can only keep track of time until February 5, 2038? That's the dumbest thing I ever heard of."

continued on page 222

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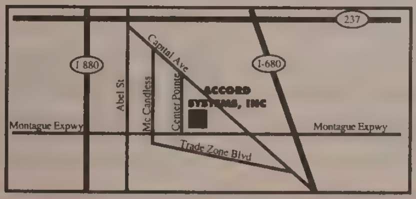

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OS/2 • BY FABIAN PASCAL

Removing Nonremovability

Switching Disks Under OS/2

Those who read my earlier columns may recall that when I upgraded my old 486/EISA system to a P100/PCI system, one of the peripherals I kept was an Iomega Transportable 150MB Bernoulli drive. It's an external SCSI device which I have been using mainly for backups. It is very fast relative to tape, much less fussy, and FastBack for OS/2 seems to work fine with it.

> **HPFSRem was developed by a student. When students provide solutions while dominant vendors fingerpoint, you know things are not right.**

From the start, however, there was a problem: I could switch disks at will, but OS/2 would not be aware of the switches. For example, the DIR command would list the content of the old disk, rather than the new disk; trying to access the new disk would either yield scrambled results, or crash the system altogether. To get OS/2 to recognize a new disk I had to reboot, which defeats the purpose of removability.

Very early on I tried—and failed—to get the problem resolved. My hard disks, Bernoulli drive and scanner are attached to a DPT SCSI adapter, whose adapter device driver (.ADD) is built into Warp. When I called DPT, I was told that media switch notification was a purely OS/2 matter and referred me to IBM. IBM OS/2 support informed me that I needed a driver from Iomega. Iomega did not have a solution, so I gave up.

But I remained frustrated by the inconvenience of having to reboot the system each time I needed to switch disks. Then, while browsing online services and BBSes for new OS/2 software, I noticed a utility called HPFSRem, described as follows:

> "Although HPFS without any special software can sometimes be used on a removable drive without any problems, often system crashes will be the result and data can be lost. HPFSRem attempt[s] to eliminate [these problems]."

My disks were FAT, but since I was experiencing similar problems, I wondered if the utility would help. Moreover, I was intrigued by the possibility of HPFS on removable drives, because I was under the impression that only fixed drives could be so formatted under OS/2, and I never managed to make OS/2 see the Bernoulli as fixed.

First some basics.

File Systems And Removability

According to the author of HPFSRem, Jeff Jackowski, while the file system itself does not make it impossible, or even very difficult, removability was not a design goal, because at the time HPFS was developed, removable drives were uncommon and media expensive. As implemented: "HPFS uses lazy writes and stores directory structure information in memory... [thus] if a disk is replaced, the information that OS/2 will use when it accesses the disk is not that for the disk in the drive. This seems to cause system crashes."

Consequently, the HPFS file system must be dismounted (via system shutdown) when disks are replaced and CHKDSK is run at bootup after an improper shutdown.

That is also why OS/2 will HPFS-format only fixed—and thus partitionable—drives. Some removable drives, e.g. Iomega's Zip (when locked), or Syquest's EZ135 and SQ3270, can be made to appear fixed to OS/2. Others, like the newer Iomega Jaz, do not.

This, however, seems to be a function of not just the drive, but also the OS/2 driver for the adapter to which it is attached. The Zip drives, for example, achieve this with Iomega's OAD driver for their own (Adaptec-made) SCSI adapter, which may have built-in specific removability support for their drives (problems with Adaptec adapters were described in a previous column).

The DPT .ADD driver does not have specific support for removable drives. According to the OS/2 Command Reference, it leaves such drives to the OS2DASD.DMD base device driver, which treats them "as large diskette drives." Attempts to lock the Bernoulli drive and make it appear fixed to OS/2 (via either software or hardware) were ineffective. OS/2 won't partition the disks and will only format them as FAT. One would think that FAT disks would be as removable as floppies, but judging from my experience, that's not so.

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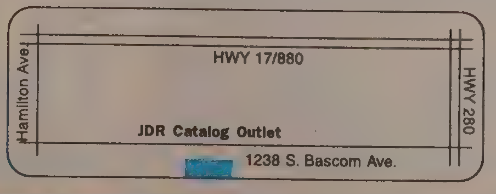

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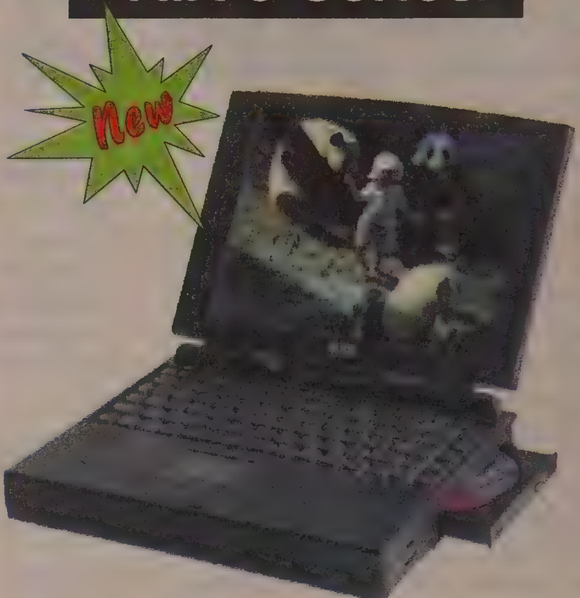

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OS/2 *continued...*

IBM1FLPY.ADD driver. Removable drives like Bernoulli, or Syquest, are at the discretion of the drivers specific to SCSI (or IDE) adapters used, whose removability support may vary. The DPT .ADD driver leaves it to OS2DASD. DMD, whose "large diskette drive" support is as follows:

- A disk must be partitioned if OS/2 is to recognize it, but FDISK does not "see" it and, therefore, cannot partition it. As already mentioned, locking does not work (in fact, even when partitioned by other OS, FDISK still does not "see" the drive);
- To get a disk 's full 1.44MB space, the FORMAT command must be used; the Format option on the drive's WPS pop-up menu offers only the floppy size options (1.44MB, 2.88MB, etc.);
- FAT disk switches cause the same problems as those of HPFS switches.

Iomega Revisited

For this article I logged on to Iomega's BBS (rather then pay $14 per customer support call) and downloaded the latest OS/2 drivers, of which there are two: the open architecture driver (OAD), which is the exact opposite of what its name implies (as mentioned, it works only with the Iomega SCSI adapters); and a filter (.FLT) between Iomega drives and non-Iomega .ADD drivers that allows the former to work with the latter.

While one can understand why removability support was, initially, not a high priority for OS/2, at this stage we should be able to switch any disk as we do floppies (the just-released Windows NT 4.0 does not do a better job, either).

However, the documentation does not list the Transportable 150 among the drivers supported by the filter. It also states that "Iomega SCSI drives can be used with non-Iomega SCSI adapters without the [filter and its format and lock utilities], but [then] you may not be able to use Iomega formatted disks." Well, my disks were OS/2, not Iomega formatted, but I thought that perhaps Iomega formatting might resolve my switch problem.

Furthermore, the filter has a /FIXED parameter to make the drive appear nonremovable to OS/2 and, therefore, partitionable and HPFS-formattable. This requires formatting with the IOMGFMT utility.

So I decided to give the filter and its utilities a try anyway. I installed them and tried to format a disk with IOMGFMT. The formatting process took about ten minutes, at the end of which I was notified of failure to

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complete and the disk became inaccessible. Even the FORMAT command would not work anymore on it (neither could other OS's, even when repartitioning prior to formatting).

So much for the Iomega drivers to which IBM had referred me. Would HPFSRem help?

HPFSRem

HPFSRem requires EMX 0.9a or later (free GNU software), also available from online systems.

First install EMX by unZIPping it and runing the INSTALL.CMD. Then unZIP HPFSRem. Add the relevant directories to the PATH (the EMX DLL one to the LIBPATH too) in CONFIG.SYS and reboot.

The syntax for running the utility at the OS/2 command line is

HPFSRem d [R | I | RI | S]

where:

d = removable drive letter

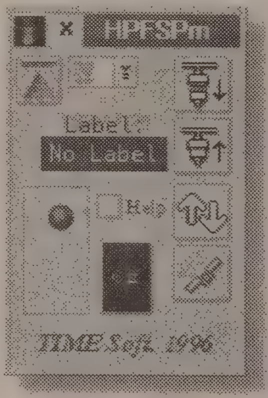
R = remove disk (if locked, unlock it)

I = insert disk (lock it until next R)

RI= remove and insert (combination R,I)

S = drive information (whether OS/2 sees the drive as removable, if the drive is locked, can be locked, or won't tell, and assessment of HPFS removability)

Fig. 1



When you issue the command, you are prompted to remove, insert or switch disks.

HPFSRem can also be run via HPFSPm, a WPS interface also available as freeware. Once unZIPped, you can create a Program object for it from a Template, shown in Figure 1.

The buttons are equivalent to HPFSRem's parameters. You click, for example, on the RI button, switch disks and click on the button again.

Even though HPFSRem is intended to work with HPFS-formatted disks, when I switched FAT disks using the RI parameter, OS/2 became aware of the new disk and the DIR command correctly listed its content.

To make HPFS disks switch without problems, HPFSRem makes sure that cached data gets written to the disk and shuts down HPFS. Apparently, this takes the directory structure information out of memory, or ensures that new information is read from the disk when next accessed. According to Jackowski: "HPFSRem really doesn't care what file system is on the disk. It just makes sure the file system knows the disk is gone. It works well with HPFS, FAT, and may work with an HFS (Mac) file system when available."

Rather a simple fix, don't you think?

Comments

While one can understand why removability support was, initially, not a high priority for OS/2, at

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OS/2 *continued...*

this stage we should be able to switch any disk as we do floppies (the just-released Windows NT 4.0 does not do a better job, either).

Currently, only your drive and .ADD driver for your adapter can provide OS/2 with the capability to partition and HPFS-format removable drives. Some do and some don't. Some .FLT filters may work, some won't.

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HPFSRem was developed by a student. When students provide solutions while dominant vendors fingerpoint, you know things are not right.

(I would like to thank Jeff Jackowski, the author of HPFSRem, for his help with this article).

Update

Last month I stated that all files which LXLite compressed worked properly after the compression. Since then I did run across one which does not: CHKDSK.COM. Do not allow LXLite to compress it. ■

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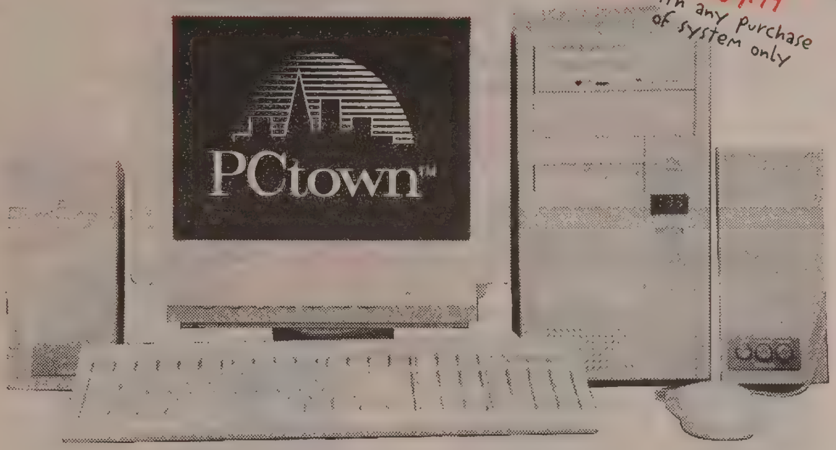

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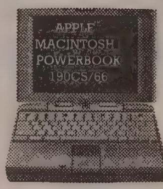

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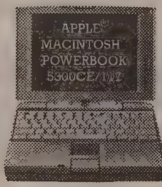

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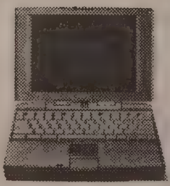

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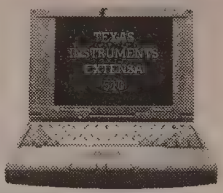

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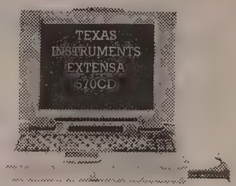

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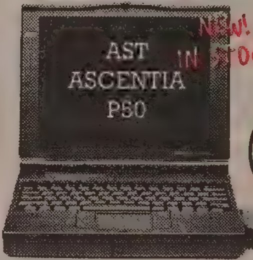

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- AccuPoint Mouse

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- 11.3" TFT Active Matrix Screen
- 64-bit Graphics Acceleration
- Integrated AccuPoint™
- 3 Years Warranty

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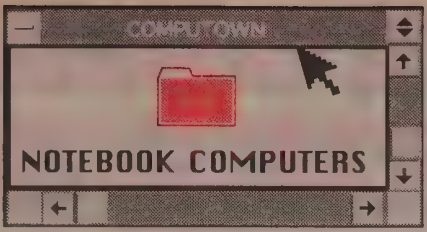

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- 2 PCMCIA slots
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- 1 Year Warranty

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2640E0A	100MHz Pentium®	8MB/540HD	$CALL

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Part#	RAM HD	Display	Your Price
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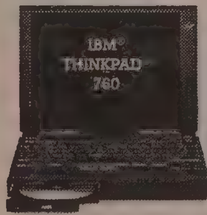
560(12.1"Active Color Display)			
2640E0A	120MHz Pentium®	8MB/810HD	$CALL
2640FOE	133MHz Pentium®	8MB/1.0 GB	$CALL



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- 1.2 GB HD
- 4X CD (optional)
- 28.8/14.4 Fax/Modem
- 12.1" TFT Screen
- 3 Years Warranty

Part# 9546U3B

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9547U3F	100MHz Pentium®	8MB/810 HD	$CALL
760EL(12.1"Active Matrix Display)			
9547U3H	133MHz Pentium®	16MB/1.1GB	$CALL
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760E(12.1"Active Matrix Display)			
9546U3B	120MHz Pentium®	8MB/1.2GB	$CALL

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ARMADA
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FREE 5 YEAR WARRANTY

Compaq Armada 1120T

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- 10.4" Active Matrix Display
- 3 Years Warranty

Part# 262500-003

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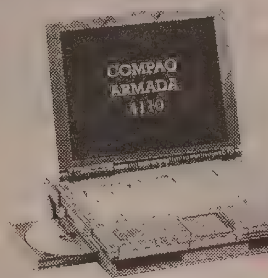

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- 100MHz Pentium® Processor
- 8 MB RAM exp to 40 MB
- 810 GB HD
- PCMCIA slots
- Lithium Ion battery
- Optical Trackball
- 11.3" Dual Scan Color Display
- 3 Years Warranty

Part# 217900-001

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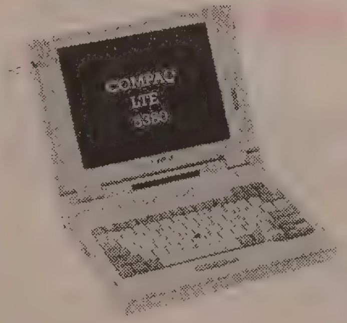

Compaq LTE 5380

- 133MHz Pentium® Processor
- 16 MB RAM exp to 72 MB
- 2.1 GB HD
- 4XCD optional
- 2 PCMCIA slots
- 12.1" Active Color Display
- TrackPoint Mouse
- 3 Years Warranty

Part# 242300-009

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SPECIAL PRICE

Part#	RAM HD	Display	Your Price
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LTE 5300(12.1"Active Color Display)			
241900-008	133MHz Pentium®	16MB/1.35GB	$CALL

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HP OmniBook 5500CT Notebook

- 133 MHz Pentium® Processor
- 16 MB RAM exp to 32 MB
- 2.1 GB HD
- 2 PCMCIA slots(2 Type II or 1 Type III)
- 12.1" TFT Screen
- 16-bit Sound Blaster
- 3 Years Warranty

Part# F1320A

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NEC
VERSA
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NEC Versa 6000H Notebook

- 100 MHz Pentium® Processor
- 16 MB RAM
- 1 GB HD
- 2 PCMCIA slots(2 Type II or 1 Type III)
- 6X CD-ROM Drive
- 11.3" TFT Screen
- 3 Years Warranty

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- 133 MHz Pentium® Processor
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- 1.3 GB HD
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- 6X CD-ROM Drive
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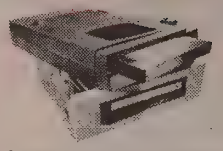

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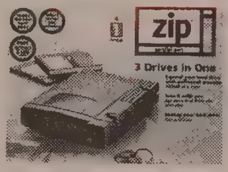

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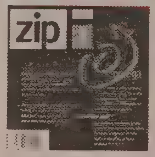

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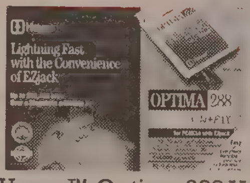

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- Automatic configuration
- Includes top-rated fax, data and interent software

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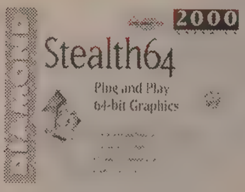

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- Fast On-Board DRAM
- Flicker-Free refresh rates
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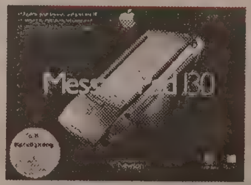

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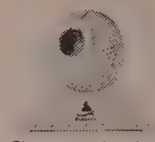

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- Camera with tripod socket
- Camera base
- 640x480 pixel CCD for up to 24-bit color

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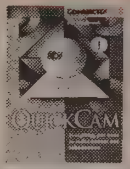
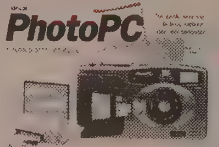


Connectix QuickCam
- 640x480 resolution
- 5.7mm lens with 48 degree field of view

$99.99



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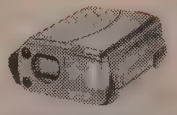

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- Color:24-bit, million of colors
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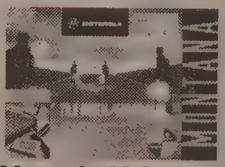

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- 1200 dpi or 600 dpi
- 5 ppm (color), 14 ppm(b/w)
- 8 MB RAM exp to 72 MB
- 32 MHz RISC processor
- Adobe PostScript™ level 2 & HP-GL
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- Letter & legal size paper

TEKTRONIX® PHASER™ 440
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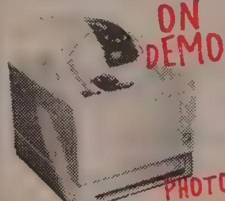
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- 300 dpi continuous tone
- 16 MB RAM exp to 64MB
- Adobe PostScript™ level 2
- 24MHz RISC processor
- Letter & Letter Extra Size
- Optional Ethernet support

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Color Printer

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- 600x300 dpi, 69 fonts
- 32 MHz AMD 29030 RISC processor
- 24 MB RAM
- Adobe PostScript™ level 2
- Job pipeline feature
- Plain paper Phase-change printer

IN STOCK

TEKTRONIX® PHASER™ 300i
Phase Change Printer

ON DEMO

- 300 dpi plain paper Phase-change
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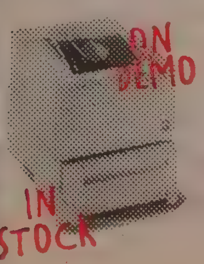
- 24 MHz AMD 29000 RISC processor
- 10 MB expandable to 22 MB
- 4 x 6" to 12 x 18" media sizes
- Maximum print area 11.6 x17.5"

TEKTRONIX® PHASER™ 240i
Thermal Wax Printer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- 300 dpi exp to 600x300 dpi
- Speed: 2 pages per minute
- Adobe PostScript™ Level 2
- AMD 29000 RISC processor
- 5 MB expandable to 21 MB

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Okidata Okipage 4W Printer
- Laser quality printer
- 4 ppm
- 5 years limited warranty on LED printhead

Part# C161001

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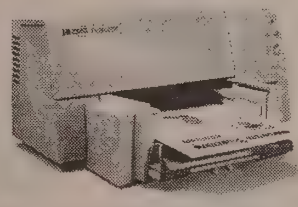

HP Deskjet 870CXi Printer
- 8 PPM
- 600 dpi
- Mac & PC compatible
- 1 Year Warranty

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Part#	Description	Resolution	Your Price
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C2633A	DeskJet 340CM	600x600	$349.99
C4549A	DeskJet 680C	600x600	$319.99
C4531A	DeskJet 820CXi	600x600	$399.99
C3540A	DeskJet 1600C	600x600	$1349.99
C3541A	DeskJet 1600CM	600x600	$1999.99

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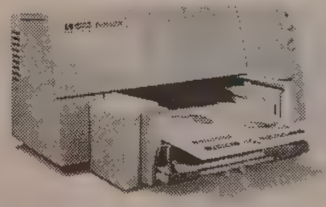

HP DeskWriter 680C Printer
- 5 PPM
- 600 x 600 dpi
- 3 Year Warranty

Part# C4550A

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Part#	Description	Resolution	Your Price
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C3279A	DeskJet 340 Printer	Mac Adapter	$32.99
51633A	DeskJet/DeskWriter 310/320	Black	$21.99
51626A	DeskJet/DeskWriter 500	Hi-capBlack	$26.99
51625A	DeskJet/DeskWriter 500	Color	$31.99
51629A	DeskJet/DeskWriter 660	Hi-capBlack	$26.99
51649A	DeskJet/DeskWriter 660	Color	$31.99
HP LaserJet Supplies		**Yield**	
92274A	LaserJet 4L/4P/4MP	2-3K pages	$69.99
C3903A	LaserJet 5P/5MP	2-3K pages	$89.99
92298A	LaserJet 4M/4Mplus	2-3K pages	$109.99
HP LaserJet Supplies		**Option**	
C2970A	DeskJet Fax Printer Pal	Fax	$149.99

HP LaserJet 5L/FS Printer
- Up to 6 PPM
- 600 dpi
- 100 sheet paper tray
- 26 scalable fonts

Part# C3941A

$449.99

Part#	Description	Resolution	Your Price
LaserJet for IBM® compatible			
C3941A	LaserJet 5L/FS	600dpi	$449.99
C3150A	LaserJet 5P	600dpi	$899.99
C3141A	LaserJet 4V	600dpi	$1899.99
LaserJet for Multiple Platform			
C3916A	LaserJet 5	600dpi	$1399.99
C3917A	LaserJet 5M	600dpi	$1799.99
C3155A	LaserJet 5MP	600dpi	$1049.99
C3142A	LaserJet 4MV	600dpi	$2899.99
C3961A	Color LaserJet 5	1200dpi	$5999.99
C3962A	Color LaserJet 5M	1200dpi	$7399.99

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- Fast text and color printing

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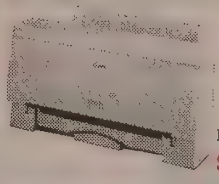
Canon®



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- Printing speeds rival 4 ppm laser
- 100 sheets or 15 envelopes
- EPA"Energy Star" compliant

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Part#	Description	Resolution	Your Price
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Q30-1770-USI	BJC-240	720x360	$189.99
Q30-1960-USI	BJC-4200	720x360	$279.99
Q30-1612-USI	BJC-610	720x720	$419.99

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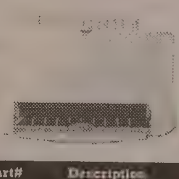

Apple® Color StyleWriter® 2500
- 3 - 4PPM
- 360x360 dpi
- TrueType® fonts
- High speed serial

Part# M4236LL/A

$389.99

Part#	Description	Resolution	Your Price
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M4236LL/A	Apple®Color StyleWriter®2500	360dpi	$389.99
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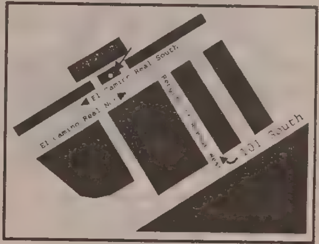

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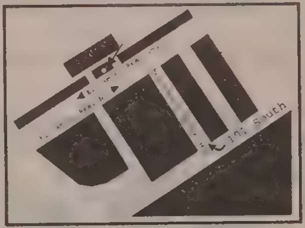

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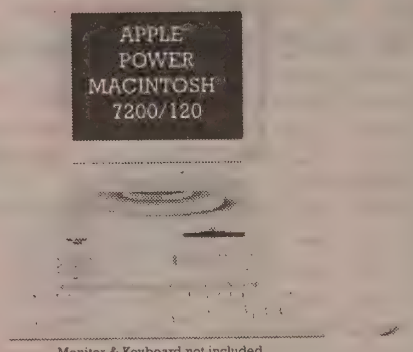

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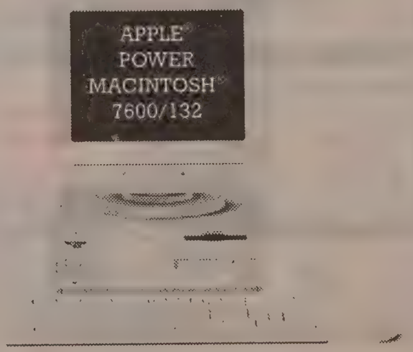

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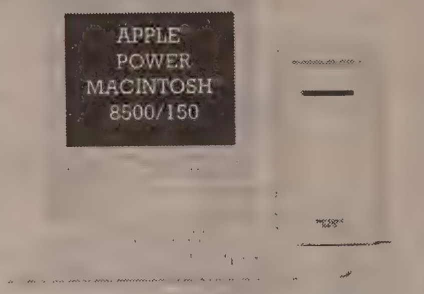

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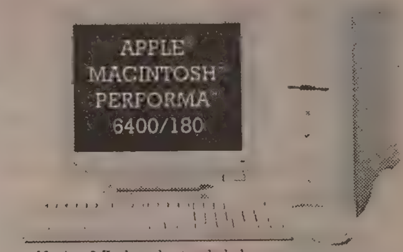

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Confessions Of A Reviewer

Plus: Disk Tools

Accusations of kindness come to me from time to time. It may be an acquaintance who gives me a knowing look and says, "How come you say only good things about products? Doing a little advertising for the software companies?"

Another kind of message is like the call I got recently from a polite but concerned PR professional. "I sent you a copy of 'XX.' Have you gotten around to reviewing it?"

The answer to both questions is the same. While I'm at it, it seems worthwhile saying just how I do reviews for this column. Then we'll take a look at the remarkable DiskMapper and the old faithful McAfee Virus Scan.

Confessions Of A Reviewer

I review products because I am interested in them. By the time I call a company and ask for a review copy, I know of the software from gossip in the trade. The product probably works, and does something worthwhile for a small business operator.

Any product I request, I use. If it seems promising, I will put it to work in my own business. Before I write about a product that I like, I will have used it for one to three months. It will have done real work for me. It will have lived up to my expectations in concrete business situations.

Sometimes I'm wrong, though. Sometimes I get a product that turns out to be clumsy, silly, inefficient, ugly, error-prone, useless, overpriced, defective, behind-the-times, offensive, insufficient to the task, worse than its competitors, oversized, unoriginal, underpowered, or otherwise not up to snuff. Then I must decide what to do.

It would be excusable to write a review panning it. Since many products come from startups or small companies, errors slip through. I could have a high old time with them. Bad performance makes good copy: "When I ran the demo, it locked up itself and my computer. When I foolishly ran the program itself, I found that it was one more attempt to make a visual interface replace programming. One more attempt that didn't work..." This is from a review I thought, but did not write. It was my opinion of the product the plaintive PR person had sent me.

I have decided that bad products by small companies are best just ignored. It may be an inadequate first try, which will be followed by a second attempt that succeeds. There is no need to kill their chances by telling more than 200,000 readers that version 1.0 is a dog.

That is why, generally, the reviews you see in this column are positive. The products which would not get a positive review are downstairs in the discard pile.

If a large company has put out a bad program, we do have an obligation to talk about it. Too many people automatically buy known brands. Usually it is a successful strategy, but it backfires when the big players make bad software. If one of the industry giants puts out a dog, it is our responsibility to be the animal control officer.

Does the sales department suggest what I review? No. Sometimes I tell them after I have finished a review that I am covering the Aardvark Database. They then may call Aardvark and try to sell them an ad. Usually I forget, though. Does my editor tell me what to cover? Not usually. Of the last four things she has suggested, I think I have reviewed one. Do companies pay me to review things? Apple has loaned me a Macintosh portable on condition that I occasionally include Mac products, and I do. (The editor likes that too, as she is serious about her Mac.) Otherwise, I receive no payments.

What gets looked at? Mostly stuff that I solicit. If I hear about it, see it at a trade show, see an ad or read someone else's review that sparks an interest, I may call a software company and solicit a copy. What I ask for *always* gets tried out, even if the company was difficult or unpleasant. Some of them can be bizarrely unfriendly. For a recent story I had to contact a company five times over a period of a year. Another company promised to send something three times before doing so. I try to ignore the unpleasant encounters and to judge the product on the merits, with more or less success; I have found that companies that are unpleasant often have poor products and support.

> **I review products because I am interested in them. By the time I call the company and ask for a review copy, I know of the software from gossip in the trade.**

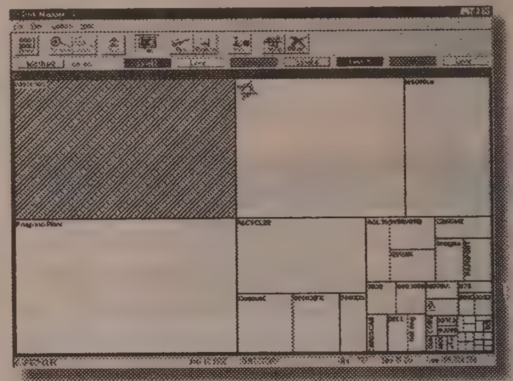
I will boycott companies that send only a demo version or a program with an expiration date (“time bomb”). Unsolicited products take their chances. I usually at least glance at them, but there are no promises.

And finally, I try to label information. Most of what I write is from my own experience. It seems only fair that my reviewing should come from personal testing of the product. Sometimes, though, I need expertise that I do not have. If the source is a specific other person, I try to say who said what and when and where. If it is something that I overheard or is common gossip, I use the old journalistic butt-covering phrases: “Rumor has it...”, “It is alleged...”, or “Critics charge...”

End of confession, folks. No more talk of kindness.

DiskMapper: "A New Way of Seeing Things"

It is extraordinary how a good, new way of viewing makes a difference. If you have ever tried to do subtraction in Roman numerals (try “XLVII–XXIII”), you can appreciate how relieved people were when the Indians invented and the Arabs distributed our current way of doing numbers. (Try “47–23”). When DiskMapper from Micro Logic came through the mail slot one day, I discovered a similar simplification.



DiskMapper makes a map of your hard disk by treating all the space on it as one big rectangle. It then shows how that space is subdivided. Each directory becomes a rectangle within the one big rectangle. Sub-directories are smaller rectangles within that, and so on.

When I mapped my drive, I started discovering things. One was that Windows 95 does eat up a huge among of space. On my drive, the Windows directory was immense. If I moved the cursor to the edge of the rectangle representing the Windows directory, a note popped up and told me that 277 MB are therein kept. To be fair, much of that is used by DLLs installed by other programs—but a quarter of a gigabyte?

The power of a good representational metaphor is that it is simple and clear enough to understand, but rigorous enough to have consequences. I was able to understand the DiskMapper metaphor easily enough: “Oh, I see, part of the rectangle means part of my drive. Got it.” The consequences were also direct: “Wow, look at that huge section of the drive kept as a shrine to Bill Gates!”

You can choose to show all the sub-directories within directories if you wish. This makes a busy but informative picture. Another way is to select the “flat” view. Then only the topmost directories are shown. The view is clearer, but tells you less. It is ideal for the kind of person

continued on page 91

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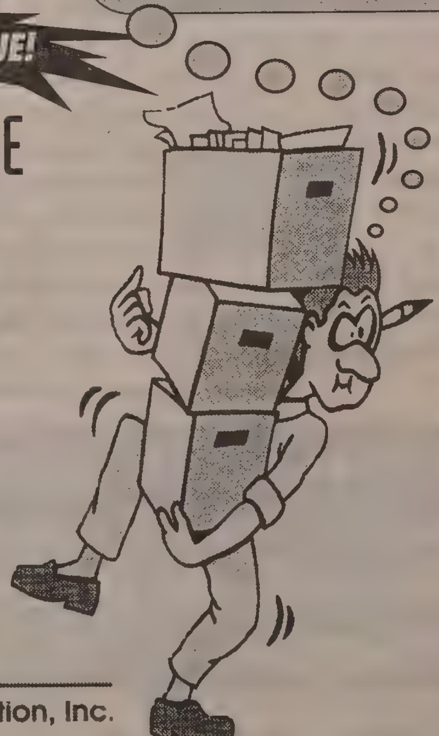

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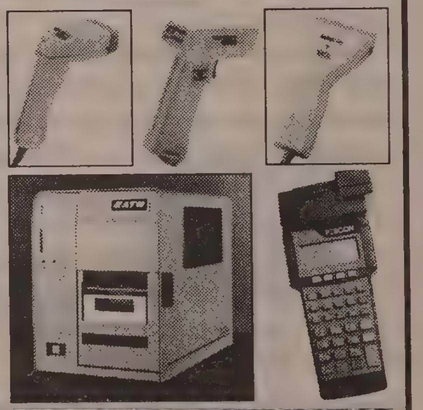

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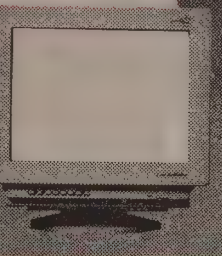

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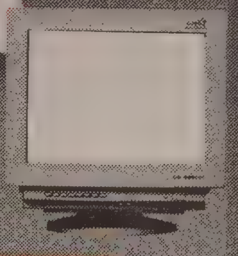

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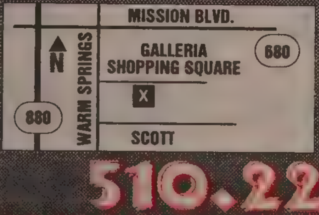

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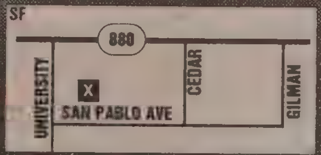

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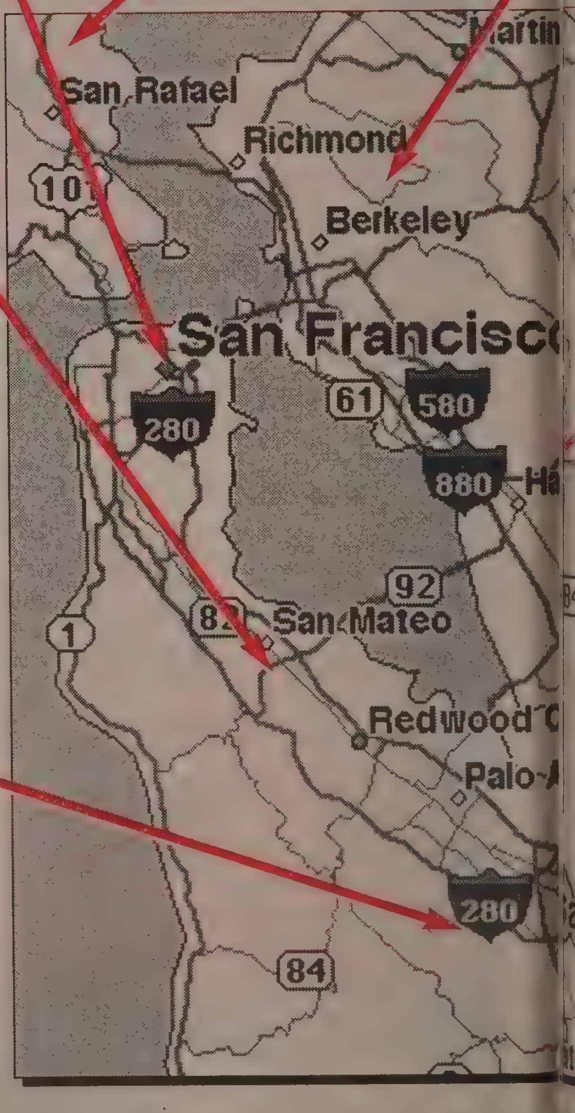

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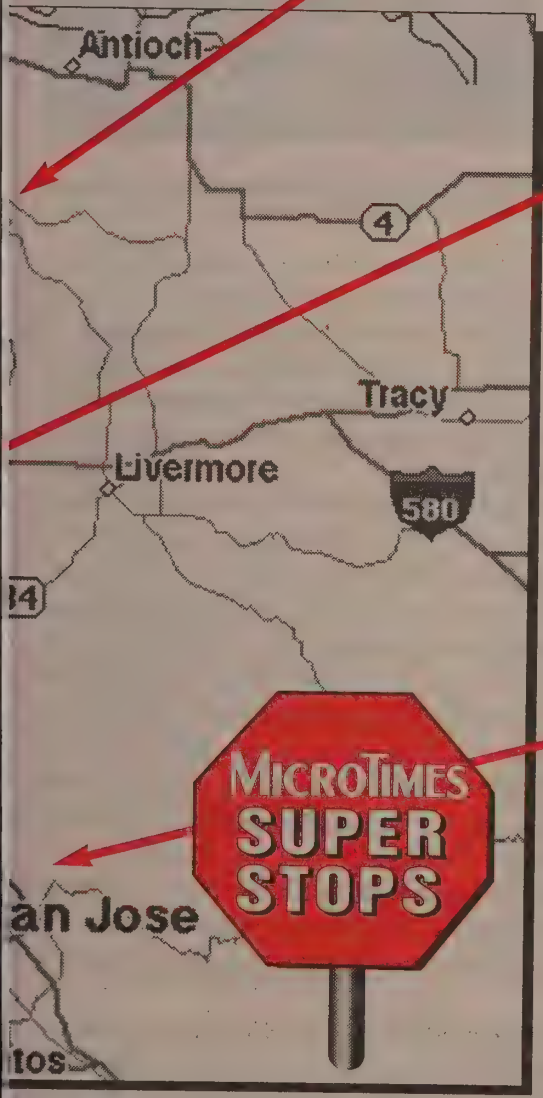

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Small Office/Home Office *continued from page 86*

who says, "Tell me the bottom line." You can move between the two views simply by tapping the Tab key.

As soon as you run DiskMapper, you begin to find things you can clean up. I found an outmoded version of America Online software sitting on my drive. It went. I discovered that several programs I had reviewed were still in place. A little quick surgery and they were gone. I had allowed fonts to eat up a great chunk of my drive. Choosing which fonts to keep is a tedious process, so I put the task down for some slow afternoon.

> As soon as you run DiskMapper, you begin to find things you can clean up. I found an outmoded version of America Online software sitting on my drive. IT WENT.

When I was done, I had reclaimed between 100 and 200MB. This was in less than a half-hour of work. Impressive. So I took DiskMapper under my arm and (in the name of science) installed it on the drives of several friends. Each of them made the same discovery: a very few minutes looking at their drive through the DiskMapper metaphor let them reclaim 10-25% of their drive space. Micro Logic should put up billboards: "DiskMapper: Enemy of Hard-Drive Clutter."

The program has a variety of adjutant tools. You can zoom in to view a single directory or sub-directory in more detail, or zoom back out for a general look. There is an "X" button which allows you to delete selected files or directories. An "Info" button lets you see the sort of information about a file which does not show in the rectangle view—when it was created, the attributes, and so on. A single button will launch Microsoft's Explorer, so you can use DiskMapper in conjunction with the conventional method of handling files. There are options to let you control the color scheme: one particularly useful color arrangement lets you see which files have never been used since creation. I discovered a program I had loaded to review "someday" that had been sitting gathering dust ever since.

There are files which you don't use much, but which you don't want to discard. DiskMapper also includes a zip and unzip utility. You can compress a file, and either keep it on your hard disk or move it to a floppy in this condensed form.

The program itself is small. It occupied only 638 KB with all its ancillary files. And it is cheap, currently about forty bucks. You may be able to find Micro Logic products in stores, but I never have. Readers from as far away as South Africa have written to ask where their software can be purchased. You can get them from the publisher direct; they offer a discount for Web orders. See the Resources at the end of the column for a Web address.

I Think I Have a Bug...

It can happen to any of us. We thought we were being careful with our files, but somehow we seem to have caught a virus. The whole office is a mess, with data disappearing and no one able to share disks. What do we do?

continued on page 224

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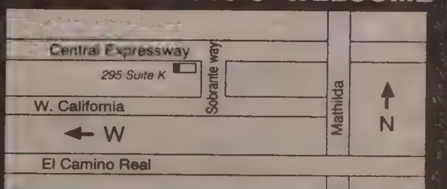

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Giving Unto Caesar From Cyberspace

Taxation Of Internet Export Sales

Uncle Sam is smiling benevolently on those using the Net to peddle their wares elsewhere. It is now possible to have international commerce that is conducted via the Internet to be taxed at significantly lower rates than domestic sales because of special tax breaks for U.S. exporters. The exporter can achieve this by forming a Foreign Sales Corporation (FSC).

For individuals and corporations selling goods and services over the Internet, the primary tax benefit in establishing an FSC is that a portion of its foreign income can be exempt from U.S. tax. On average, according to one analyst, U.S. companies increase their after-tax net margin on exports by about 5% when they take advantage of the FSC loophole. In some cases, the tax benefits are substantially greater.

Moreover, the advantage may soon be more widely available. Recently, Senator Dianne Feinstein asked the Treasury to revise temporary and proposed FSC income tax regulations, which she says "unfairly discriminate against the software industry." The Treasury seems favorably inclined to such revisions.

As one would expect, the key to reaping benefits is planning and structuring. Rules and regulations impose a formidable array of requirements, the application of which is not entirely defined when it comes to Internet sales. Legal commentators have suggested that even the location of the Web server can make a difference.

What Is An FSC?

An FSC is a foreign corporation agreeing to be governed by special rules of the U.S. tax code and satisfying various organizational requirements. Typically, it is a subsidiary of a domestic corporation, but it can also be individually owned. An FSC is established to handle export activities.

Although the compliance requirements can be burdensome, simplified rules are available for "small" FSCs—those grossing less than $5 million of foreign sales. Because of the simplified rules, some entrepreneurs who do little more than hang a Web page still find it worthwhile.

> **On average, according to one analyst, U.S. companies increase their after-tax net margin on exports by about 5% when they take advantage of the FSC loophole.**

Now, it's by no means a certainty that international sales made on the Internet qualify for this cushy FSC treatment. Income attributable to foreign trading gross receipts, including income from an FSC's export sales and certain services, is partially exempt from U.S. taxes if the FSC satisfies three tests: 1) The FSC must have a foreign presence, 2) it must have economic substance, and 3) its activities relating to export income must be performed by the FSC outside of the U.S.

Burdens

While an FSC can deliver substantial tax benefits, these come with a cost. First, a foreign subsidiary must be formed in one of several countries or U.S. possessions (including Australia, Barbados, Canada, France, Jamaica, and the U.S. Virgin Islands and Guam) that have arrangements for sharing tax information with Uncle Sam.

Jeremy Wenokur, an Oakland attorney specializing in international taxation, finds that choosing a country in which to locate an FSC becomes an individual matter with each particular client. According to Wenokur, the cost of forming an FSC can range anywhere between $1,000 and $4,000, depending upon location, plus the cost of annual registration and tax returns.

Additionally, to meet foreign management requirements, all shareholder meetings, and the meeting of the board of directors, must be held outside the United States. Wenokur explains that this may be viewed as an additional expense or, if held in Barbados in January or France in September, as a tax deductible perk.

Export Property

For the FSC to receive any benefits, it must derive income from the sale of "export property" or certain services, such as engineering. Most goods manufactured or produced in the United States with less than 50% foreign content will qualify as export property.

Currently, export property includes standard, shrink-wrapped software but not custom software. This is because property that is copyrighted (as is most shrink-wrapped software) may qualify for a tax break, although the copyright itself does not. If you sell rights to reproduce the software, this is equivalent to selling the copyright—it won't qualify.

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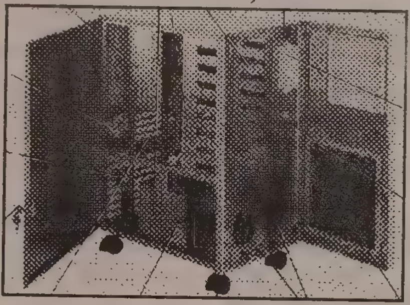

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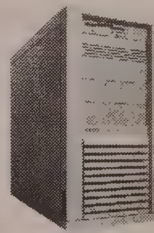

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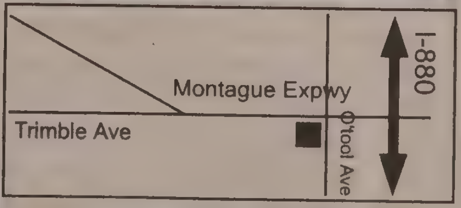

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This can get tricky. In an individual ruling, the IRS considered one FSC that licensed to a foreign distributor the right to reproduce and distribute copyrighted software, and to publish manuals and instruction books on how to use the software, but who was not selling packages of software itself. The IRS concluded that the software conveyed through the licensing agreements was excluded from the term "export property" under the temporary regulations.

In contrast, another ruling involved a U.S. corporation that failed to register its software for a formal copyright. Instead, it furnished the software by means of a nonexclusive and nontransferable license agreement, which included provisions restricting the use and reproduction of the software. In this situation, the corporation retained all ownership rights to the software and its modifications. The IRS found that the license agreement restrictions on the use and reproduction of the software were sufficient to qualify it as export property and therefore eligible for lower taxes.

As these rulings demonstrate, the way that a software license is structured can determine whether the software qualifies as export property. (Caution: these IRS rulings, known as "private letter rulings," are determined individually and cannot be relied upon as precedents in other cases.)

As noted above, the regulations addressing copyrights disfavor custom software. As a result of Senator Feinstein's request, however, Treasury is considering revisions to eliminate this distinction.

Internet Sales

In the above rulings, software was delivered to customers on floppy disks. What about when the customer downloads the software directly from the Internet? The question arises as to whether the absence of a disk or CD causes the product to be treated as an intangible, disqualifying it as export property.

There appears to be no clear answer yet. One commentator who analyzed the rules covering intangibles makes a strong argument that the absence of physical medium has no effect on whether the sale qualifies for lighter taxation. He concludes, "There does not appear to be much support for the argument that the export of software by electronic distribution should not qualify for FSC benefits."

Foreign Presence Test

Once it is established that an FSC is selling the kind of property that qualifies, the company must pass a three-part test before enjoying the tax benefits. First, it must have a foreign presence. The regulations state that the company must have a "fixed place of business." The use of facilities solely for the purpose of storage, display, or delivery of goods or merchandise does not meet this test.

Second, is a Web site a "fixed place of business?" The threshold test becomes whether a "virtual place of business" can qualify as a fixed place of business. The answer may turn upon a host of other questions.

> **What about when the customer downloads the software directly from the Internet? The question arises as to whether the absence of a disk or CD causes the product to be treated as an intangible, disqualifying it as export property.**

A German court recently held that movable places of business with temporary fixed locations, such as a temporary produce stand, can meet the "fixed place of business" test. Perhaps, then, a computer file residing at a server, constituting a home page, is temporarily "fixed" at the server location long enough to be a distinct place of doing business.

Would it necessarily be the case that a virtual place of business exists solely for the purpose of display or delivery of the goods or merchandise? If the Web site is merely an advertising vehicle to solicit business, that in itself wouldn't qualify as a valid foreign office. The argument has been made, however, that if a seller's home page permits not only the viewing of merchandise but also placing and accepting orders, then a Web site may be analogous to a catalogue store, which has been determined to meet the fixed place of business test.

Foreign Economic Process Test

The last major hurdle to an FSC is that it must meet the foreign economic process test. This requires the corporation to be managed outside the U.S. and to conduct at least a portion of its "economic processes" outside the U.S.

Small FSCs (i.e., those grossing less than $5 million of foreign sales) are not subject to the foreign economic process tests under simplified rules intended to benefit small businesses. The tax benefits available to small FSCs, however, are limited. Companies that are too big to be a small FSC, or that are willing to bear the additional compliance burdens to be a "regular" FSC, should review the foreign economic process requirements and structure their Internet deals accordingly.

The rules lay out five categories of foreign business activities:

- advertising
- processing customer orders
- transportation to the customer
- billing and collection
- assumption of credit risk

Either a high degree of foreign activities must be conducted in at least two of five categories, or a lesser degree of foreign activity is needed in all five categories.

Regulations spell out extensive computations to be performed in determining whether the requisite degree of activity in these categories is met. At first sight, the computations will seem horrendous, even by IRS standards, but don't be intimidated. In fact, the tests were written to look hard, but be easy. Congress wants everyone to pass (in order to stimulate exports), but without giving the appearance to our European trading partners that the United States is cheating on the General Agreement on Tariffs and Trade (GATT) and subsidizing exports by making the taxpayer's life too easy. One should be prepared, however, to perform reams of computations to prove adherence.

Export On The Web, Do Your Math

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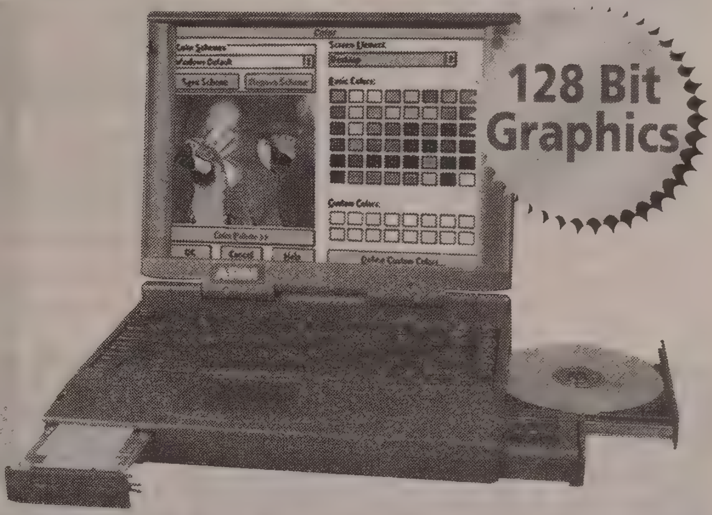

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traditional channels will have the easiest time working through the regulatory maze. The reason has to do with the way various percentage tests and complicated grouping rules work. For example, if just one sale in a group passes a certain test, then the whole group passes.

Companies conducting all their export activities over the Internet will find it substantially more difficult to wade through the tests, and probably will need to engage in formalistic paper transactions. One might find it necessary, for example, to conduct foreign activities in the "advertising" category by purchasing a display in the Guyana edition of *MicroTimes*.

Some companies doing business over the Internet will have difficulty showing that they have foreign activity which fits the "transportation to the customer" category. An article in *Tax Notes International Magazine* (see Resources) considers a number of techniques for Internet vendors trying to figure out ways to meet the economic process tests.

Figuring The Benefits

The taxpayer has a choice from among various statutory options for computing the exempt portion of an FSC's foreign trade income. First, it is necessary to compute the FSC's foreign profits. To figure the FSC's profit for having sold an item, one must assign a cost that the FSC is deemed to have paid for that item. This can be difficult if it is a unique item for which there is no established market price, and the products or services were obtained from a related supplier, namely, the FSC's owner.

If foreign trade income is calculated on the basis of arm's length pricing between the FSC and its related supplier, almost a third of the FSC's foreign trade may be treated as U.S. tax exempt.

If one of two administrative schemes is used

continued on page 101

RESOURCES:

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Pezzola & Reinke, Attorneys at Law
1999 Harrison St., Ste. 1300
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Internal Revenue Code
Sections 921 thru 927

Temp. Treas. Reg.
Section 1.927(a)-1T

1992 OECD Model Convention, Article 5

S. Prt. No. 98-169, Vol. 1
(Pub. L. 98-369) p. 637

Priv. Ltr. Rul. 93-44-002
(May 27, 1993)

Priv. Ltr. Rul. 92-10-015
(December 6, 1991)

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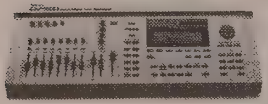

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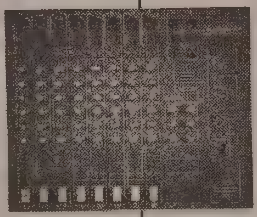

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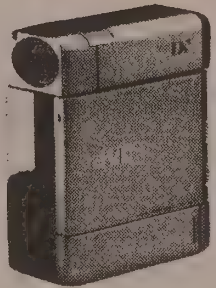

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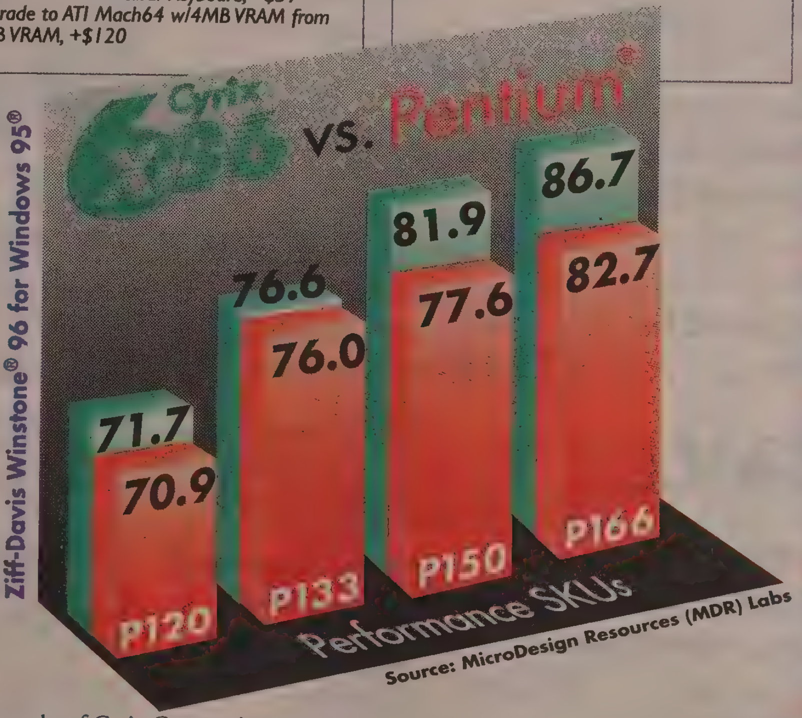

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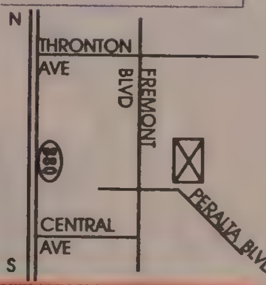

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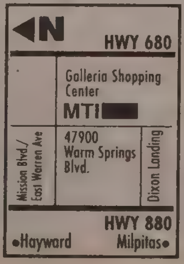

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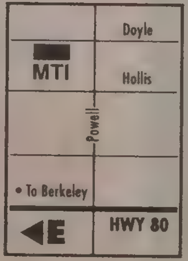

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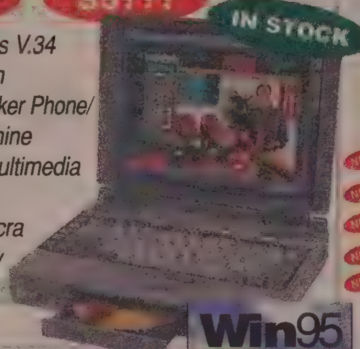

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Accounting *continued from page 96*

> **The argument has been made, however, that if a seller's home page permits not only the viewing of merchandise but also placing and accepting orders, a Web site may be analogous to a catalogue store, which has been determined to meet the fixed place of business test.**

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Philip M. Zukowski, Tax Benefits for Internet Export Sales, 13 *Tax Notes International Magazine*, 529 (August 12, 1996)

Peter A. Glicklich, Sanford H. Goldberg, and Howard J. Levine, Internet Sales Pose International Tax Challenges, 84 *Journal of Taxation* 325 (June 1996)

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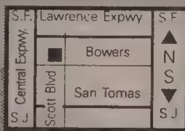

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PENS & PALMTOPS • BY MITSU HADEISHI

PCS: It's A Phone, It's A Pager, AND It's A Dessert Topping!

Plus: GPS For Humans

It's Personal Communications Services, or PCS, and it's coming soon to a city near you.

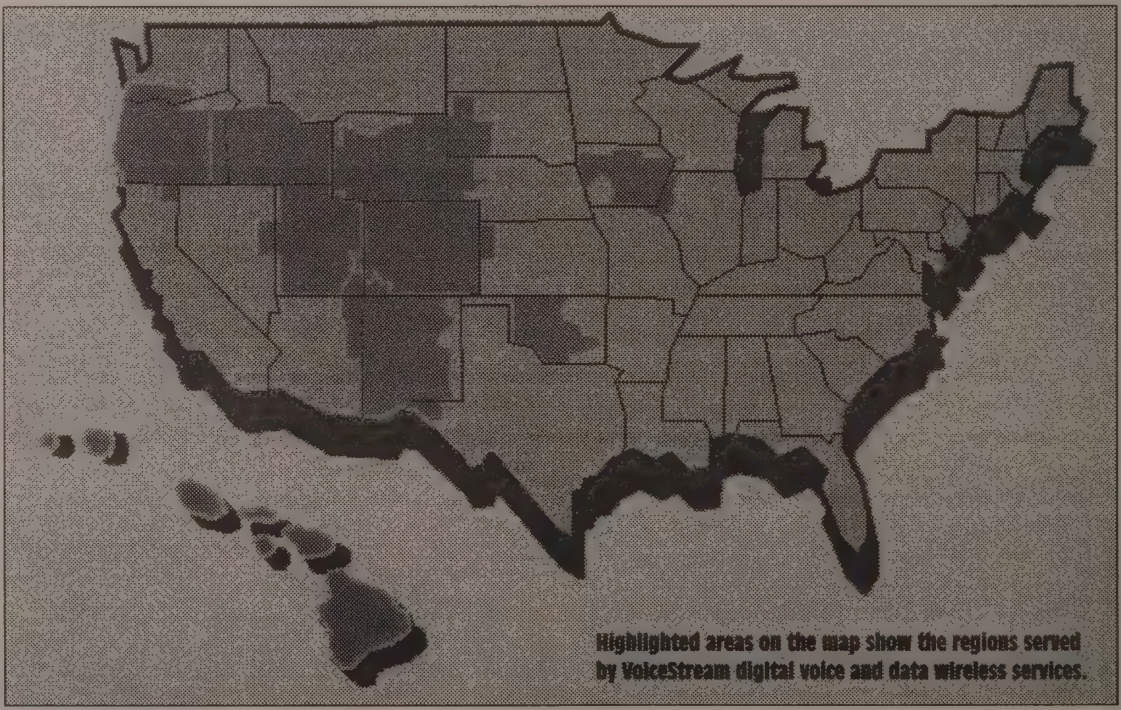
It's an all-digital wireless communications system that promises to unify the pager and the phone, and may make wireless data and truly portable computing both more affordable and more practical. Make no mistake, this is *not* your father's old mobile phone; it's a new technology which is only now beginning to establish a foothold in North America, although it has been available abroad for a few years now.

PCS has many advantages over existing networks such as digital cellular or CDPD (cellular digital packet data) for wireless data: It has the potential both to carry more data per device and to be delivered more cheaply. What's more, PCS can carry both voice and data; the service is now becoming available in certain cities across the nation which provide phones that double as pagers and triple as digital interfaces for laptops or personal digital assistants (PDAs).

PCS promises to give the wireless industry what it has needed for some time: a lower-cost way to deliver data through the air. The technology could also end up eventually displacing the current cellular phone industry, as the higher security (voice calls are digitally encoded and encrypted), lower cost, higher speed, and higher flexibility of the devices give it an advantage over both analog and digital cell phones.

In addition to voice capabilities, the network allows customers to use their PCS communicator as a pager; for example, a PCS-capable phone could receive alphanumeric or numeric messages. The phone can notify you when you get a call, and you can choose to let the service take a voice or numeric message if you can't answer at that moment. If you receive calls while the phone is off, it can let you know that you have calls waiting for you when you turn on the phone. All this reduces your airtime charges. Instead of a lot of individual devices, you can have a single, integrated, handheld device.

In addition, the network can be used to transport data, and this is where I believe it could really change the landscape for personal digital assistants. At present, one PCS provider called VoiceStream, for example, charges 20-25¢ per minute for airtime, voice or data, with a certain number of free minutes per month (depending on the rate plan). This is less than what most cellular providers charge, and it means that computer users can use the service for data at rates lower than cellular service. Furthermore, data-only services utilizing the PCS spectrum could provide even lower cost network connectivity for PDA and laptop users.



Highlighted areas on the map show the regions served by VoiceStream digital voice and data wireless services.

> PCS promises to give the wireless industry what it has needed for some time: a lower-cost way to deliver data through the air. The technology could also end up eventually displacing the current cellular phone industry.

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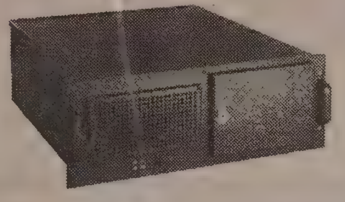

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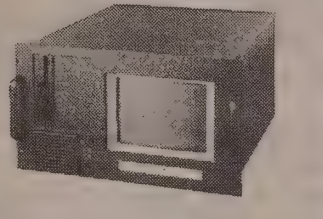

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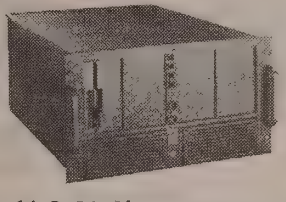

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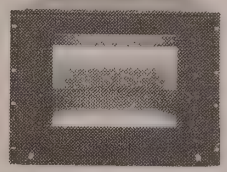

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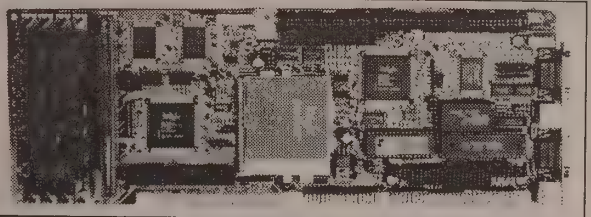

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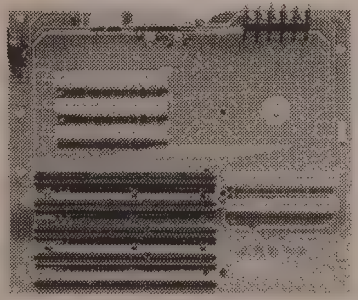

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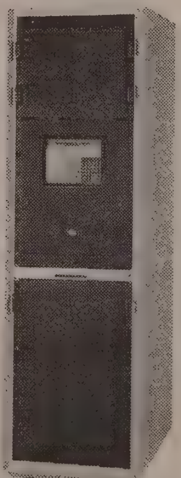

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There Today, Here Tomorrow

Of course, one big problem standing in the way of this new technology right now is coverage; it is not yet available everywhere. However, many regions can expect to see startup of PCS services within the next year or two; as I will discuss, Pacific Bell intends to start up PCS service in early 1997, or much less than a year from now. PCS is already being offered in a number of metropolitan areas; in Portland, for example, where I spend a lot of time, VoiceStream is offering the service now, today, for a minimum of $20/month throughout the greater Portland metropolitan area. VoiceStream also has service in Hawaii, Albuquerque, and Salt Lake City/Provo. Sprint Spectrum is up and running in the Baltimore/Washington D.C. area, and BellSouth has service in parts of North Carolina and Tennessee.

Here at home, Pacific Bell intends to launch its PCS service statewide (and throughout Nevada as well) by early 1997, next year. According to Pacific Bell, they plan to have two rate structures: one which is like cellular service, but cheaper, and another which is considerably less than cellular within a restricted local area, with higher roaming charges applied if you go outside the area. Roaming agreements are already being negotiated between the providers as well, so as more networks come into being, you should be able to use your handset in other parts of the country. PCS is already available in Asia, Europe, and Australia, so if you happen to be traveling abroad, it is possible for you to use your PCS communicator to connect to these networks in other countries.

A good site for information about PCS is CellTalk (a misleading name since it is not about cellular phones but PCS) at *http://www.celltalk.com* , which has listings of the companies that intend to set up service in every major city in the country, information about the technology, and links to descriptions of the various PCS handsets currently available.

Where Am I?

When was the last time you were lost, in an unfamiliar place, far from home, and wanted guidance from the heavens?

If that were anytime recently, you could have gotten that guidance, in the form of a handheld, satellite-tracking Global Positioning System unit. The Global Positioning System, or GPS for short, is not just for people in planes, cars, or boats anymore; you can trot down today to your local wilderness supply store (at least the ones that are technologically savvy) and purchase a handheld, battery-operated, portable GPS unit for personal use.

Okay, most of us don't get lost when we go out in the wilderness, at least not usually. But if you enjoy venturing out into the wilds at all, even those with a keen sense of direction can find a lot of value in one of these devices. Unlike a compass, a GPS doesn't tell you which direction you're facing (unless you're moving),

continued on page 224

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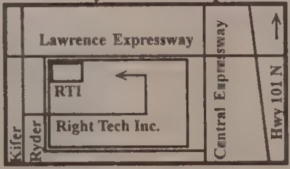

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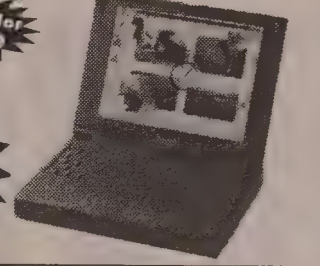

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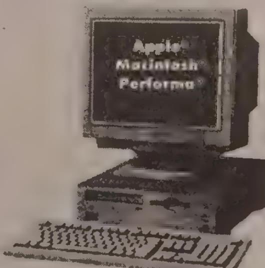

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Tales Of The Wild West

Dan Lynch On Startups, The Internet, And Staying Alive

By Mary Eisenhart • Illustrations by Trina Baucom

Dan Lynch does not want to see any more business plans right now, thank you very much. Unless, he wavers, it's of some use to companies he's already invested in.

"I just run out of bandwidth. I don't care how much money you have, if you've got no more brains, or time, you're dead, right?"

Indeed, his present investment portfolio (aside from Lynch Knoll Vineyard in St. Helena, his current pet project, not to mention a Hollywood company known as Red Empress Productions) includes an interesting range of Internet-related companies, e.g.: CyberCash, Infoseek, Polska (Poland) Online, InfoSpace, Broadvision, PGP, Inc., Places to Stay, and Women's Wire. He serves as CyberCash's chairman and has cofounded a number of these companies, some of which are not far beyond the concept stage and some of which are more mature—Broadvision, for example, went public earlier this year, and Woman's Wire (see Issue #139, "Midstream Changes At Women's Wire") is now in its third incarnation, having moved from its roots as an "online community" to a brief flirtation with Content Providerhood on Microsoft Network et al. to its present form as a mass-market Web site.

Lynch, as he is not loath to point out, saw all this Internet stuff coming twenty years ago. While at SRI in the '70s, where he worked as what he calls "a handmaiden to the R&D guys," he performed initial debugging of the TCP/IP protocols, and from there went to the Information Sciences Institute in Marina Del Rey to assume the duties of director of the Information Processing Division. There he led the Arpanet team making the transitions from NCP protocols to TCP/IP.

Suspecting that this open-standard TCP/IP stuff was about to become very big, he decided to leave the R&D world for the business arena. Unfortunately, since he wanted a job in marketing, no one would hire him.

"So I said, 'Well, hell, I'll fool them, I'll go convince them they don't even know what they're doing. I'll get my buddies out of the R&D world to put together a three-day workshop, explaining to them how TCP/IP worked and didn't work, what remained to be done.'"

It was, he says unabashedly, supposed to be a Job Fair For Dan Lynch.

He called it Interop. And it was a roaring success, though not quite the way he planned it.

"The researchers saw that these engineers from vendors were not as stupid as they'd presumed they were. The engineers found out that the researchers were actually bright people stumbling around in the dark. And admitting it publicly, that this is a trial-and-error design. Both sides exhibited a little humility.

"And then the vendors started asking the researchers questions about things they'd seen in the field that were architectural problems that the researchers had never considered, because their experience set wasn't as big as the wide world. So value was seen on both sides; they could each teach each other."

But still nobody wanted to hire him. Instead, they suggested that Lynch was far more valuable to the industry running Interop than working for a vendor, and grudgingly admitted a willingness to pay real money to attend the conference.

With that encouragement, Interop was off and running. Its fortunes and TCP/IP's rose, and eventually Ziff-Davis made Lynch the offer he couldn't refuse and he sold them the conference. (Some time later, Masayoshi Son made Ziff the offer it couldn't refuse, acquired the company, and Interop's now part of Softbank Expos).

Which left Lynch with a large pile of money and copious amounts of leisure, but, as he says, "You go buy a bunch of cars and houses and stuff like that, and then you get over that, and then you say, 'Uh-oh, what else do I do with the rest of my life?' Just sitting there drinking fine wine instead of bad wine wasn't interesting enough. So I started investing."

Joining a venture capital firm was suggested, but he rejected the idea as too job-like. Starting his own fund was pooh-poohed for similar reasons.

"I've just basically been investing by myself, and sometimes bringing other friends in, and sometimes bringing venture capitalists in. I've done about a dozen deals in the last three years. It's too many, I'm overloaded—please don't bring me any more bright ideas!"

The companies you've invested in are at different stages in their evolution. Broadvision has gone public, for instance; some of them are not far beyond the gleam-in-the-eye stage. Women's Wire has gone through a number of mutations...PGP Inc. is still pretty new...

At PGP we're building a management staff very rapidly. It's pretty easy to attract senior people from other companies because the PGP story is a great story.

So, in the context of Phil Zimmermann [author of the widely-distributed Pretty Good Privacy encryption software] and PGP, what is PGP Inc.'s specific mission?

The main thing is to commercialize all that stuff, to add privacy components to software systems all over the universe.

Wherever there's data there's a need for privacy, and everything's turning into data, isn't it? Compact discs, telephones, movies, everywhere you go there's a privacy issue now.

And the problem with PGP in its current form is that it's still pretty cumbersome to use, and consequently people don't use it very much.

So okay, let's go commercialize it. That's what's being done.

How did you happen to hook up with those guys?

I've known Phil for a number of years, and just admired him. Attaboy, Phil, thanks for taking the arrows, man.

A year or a year and-a-half ago, he and I were at some conference, sitting on a bench yakking, and I said, "Hey, if you ever decide you want to start a company to do any of this stuff, I'd be glad to help." A guy who has as high an ethic as Phil, you don't give that kind of guy a bum's rush. You say, "Here's what I might be able to do, I love your attitude, so if you're ever interested, I'll be glad to help in any way I can."

It's funny, Jonathan Seybold said the same thing to him, and Jon and I were brothers at Ziff—but this privacy is something, we never told each other! Phil is the one that revealed us to each other at that level of interest.

I didn't know if I wanted to be an investor or just give him pointers; I just wanted to give him a boost. So anyway, late last year when the feds decided to leave him alone, he gave me a jingle and Jon a jingle, and we got together and started talking about it.

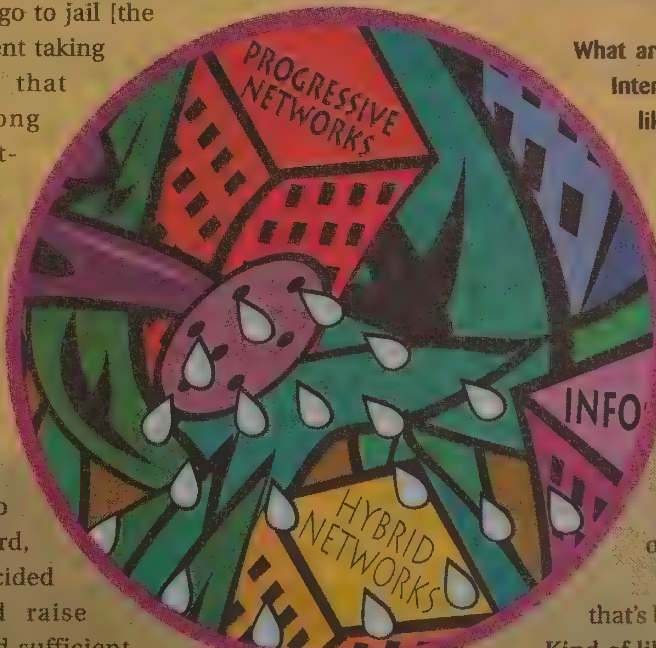
We said, "Phil, you're not the CEO."

"Oh yes, I know..."

I can't see Phil wanting to be the CEO to begin with...

Yeah, it was pretty easy to talk him out of that!

So we've basically been building a management team for him and moving him from Boulder out here. We bought a company along the way, Lemcom/Viacrypt, which had been commercializing it and not doing a very good job, frankly. But it was one of those kind of deathbed things—when Phil thought he was about to go to jail [the federal government taking the position that uploading strong encryption software to the Net constituted an unlawful export of munitions], he licensed it to somebody just so it would go along. They never had enough assets to really push it hard, and when we decided to go out and raise money, we raised sufficient money.



Where does all this fit with RSA's strategy?

RSA mainly sells toolkits, and we sell applications. That's the fundamental difference. I'm having dinner with [RSA president] Jim Bidzos tonight!

I've told Jim, "Jim, this is not a shot at you at all. Phil and you have had some problems over the years, but don't worry about it."

We use RSA in CyberCash, and...

PGP has got its place. But mainly it's not the technology, it's the packaging that's what it's all about.

So at the risk of getting you to preannounce product, what scenarios do you see for commercializing PGP in a way that it's accessible to ordinary users?

We're going to mainly do licensing. I don't think we're going to have a ton of end-user products that we market.

You're not going to do the AOL disk-in-the-mail strategy.

No, no. We'll try to talk Steve Case into doing that. He seems to love that...

It's basically an OEM strategy. It's a component, it's not a product. It's a component of products. But it's got to be made, like you say, easy to use.

Where does CyberCash fit in?

That's the linchpin of everything, I think. You've got to have easy-to-do payment methods on the Internet.

What are you paying for, on the Internet? Some scenarios are like the physical world, like ordering from catalogs on a Web page instead of from a catalog that comes in the mail.

That's boring.

What's not boring?

Pay-by-the-drink. Pay for an article. Pay to play a game. Pay for a piece of information.

Pay-by-the-drink, that's basically it.

Kind of like Xanadu as originally envisioned.

Yes!

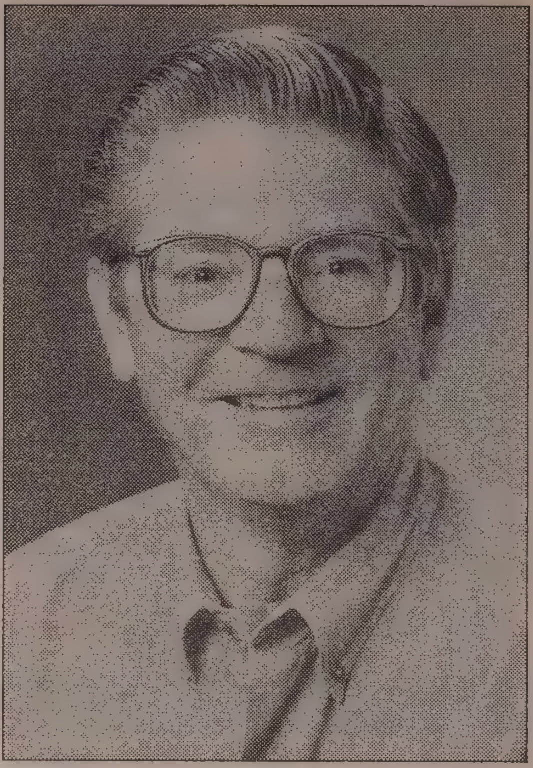
We started the company a couple of years ago. The credit card stuff was just the lead thing, and we don't really add much value there; we're just really a replacement for a telephone link, a telephone link through anybody's computer.

We're talking about a point-of-sale system, yes?

Point-of-sale systems, yes. We're basically moving the point-of-sale point into your PC, and the merchants aren't willing to pay anything extra for that. And they should be—if in fact it brings them more business.

So we're not fighting that. The real reason we started the whole thing was to bring the micro-transaction capability to the Internet, to have people be able to buy stuff by the drink. And that product, the coin system, has been a long time building. We are in beta now, we are going to launch in a couple of weeks, or someone will die .... *(laughs)*

And then it will take a year or two for that to build momentum.



Dan Lynch

This is still all based on credit cards, though, right? CyberCash debits your credit card...

It doesn't need credit cards. You can use credit cards to load your wallet, as it were, or you can use your checking account to load the wallet. Any source of money!

The game is very simple—make sure the other guy gets rich. The credit card processing companies, whoever you have to work with to get everyone in the game. Some of them get a lot of money, and some of them get a tenth of a cent. It's just amazing how the pie is split up, but it has to be split.

And then we give you a bunch of things that we call coins, and you go willy-nilly spending them, and then when you run out you load up some more.

Like phone cards, kinda.

Like phone cards. The merchants turn them in whenever they want to to get money into their real checking accounts, and we "redeem" them.

The money is never really in your PC. It always stays in the banking system. The technical term for that is it is a notational system, as opposed to a token system.

We're keeping score. The money stays in the bank. We have scrambled pointers to which bank account it really belongs to. If your PC crashes, you can call us up and say, "Oh phooey, can I have my money back?" and we say, "Sure!" Because we know what you haven't spent, and we can give it back to you. And if you lie to us, we can catch you later, because all coins are marked and we can find out if you double-spent.

This seems to require a lot of interdependencies. It seems to require customers to sign on to use the stuff and merchants to sign on to accept the payment in this form.

The fatal flaw, you're right.

So how are you dealing with this unfortunate fatal flaw? Because it seems characteristic of practically every Internet startup that there are all these interdependencies which they're in no position to control, but which they're completely at the mercy of.

That's life. Get oxygen and hold on. We're running around cutting a lot of deals we can't announce yet.

The game is very simple—make sure the other guy gets rich. The credit card processing companies, whoever you have to work with to get everyone in the game. If you look at a credit card transaction and where the money goes—basically it's 2%, right? The 2% is split up among thirty different suppliers, thirty different types of entities that carry the ball down the field a little bit.

Some of them get a lot of money, and some of them get a tenth of a cent. It's just amazing how the pie is split up, but it has to be split.

We are basically re-creating that business arena in the online world, and it ain't easy. Fortunately my cofounder Bill Melton did VeriFone, and he knows the business. Before that he did Telecheck. He's the one. He knows how to move money, or what people think money is. He found me, who knew this Internet stuff.

Internet's the next medium and it's a big one... Now we all know it. I knew it twenty damn years ago, but I was early. But unlike Doug Engelbart—

You can deal with a subset of the problem?

Exactly right. Take what God gives you.

One of the big issues with Internet commerce is privacy, from not getting your email spammed to not getting your credit card number stolen. Does CyberCash support anonymous buying by customers?

The money we hand you is as anonymous as you want it to be. Sometimes you want a receipt, sometimes you don't want a receipt. Our stuff does it all. Unlike Digicash, which is maniacally for the anonymous side of things, we say, "Hey, we don't care. We'll sell you marked bills or unmarked bills, your choice."

A single individual may have cause to use both kinds at different times. Sometimes you care and sometimes you don't care about the anonymity aspect, it's just ease of use. There's various motivations.

We starting to get it rolled out finally, and we'll see how it goes!

You have other companies like Places To Stay, which is a pretty narrowly defined niche, and Women's Wire, which is on about its third incarnation looking for its niche. Where do you see the opportunities there?

Places to Stay is really aiming at the high-end traveler who wants to browse and poke and compare. It's not for the business traveler, it's for the luxury private traveler.

You've got a destination in mind, and you want to get destination information, and you might want to do a little price shopping—the difference between $200 a night and $300 a night is a nice dinner. And when you get to the place, load up on balloon rides or concerts or whatever. It's the full experience in the area.

continued on page 238

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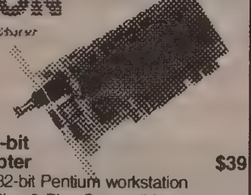

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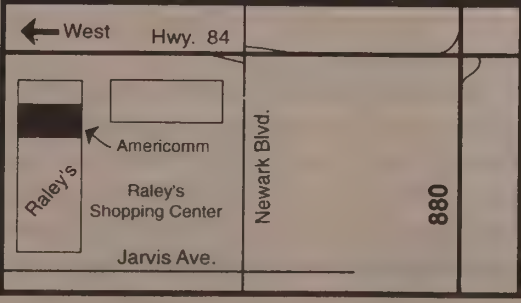

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The Internet's Economic Potential

Is The Boom Over Or Just Beginning?

by Cassidy F. Allen

In the interest of making some sense of the past year's Internet hype, we recently solicited opinions from a few venture capitalists (Tim Draper, Ann Winblad, and Wade Woodson) as well as from Eric Nee of *Upside* magazine regarding promising areas of computer-related investment and the longevity of the Internet-related IPO explosion. In addition, we discussed the importance of Java from a developmental point of view and how the Web is used by venture capitalists in their search for investment opportunities. As you will see, the opinions were far from unanimous.

–Cassidy F. Allen

Tim Draper

managing director and founder, Draper Fisher Associates

tim@drapervc.com, URL: *http://www.drapervc.com*

We have not seen a let-up in Internet IPO growth. Perhaps valuations of raw startups have come back from the moon, but the number of Internet startups that are asking us for help continues to explode. We seem to have driven ourselves into the middle of a revolution; the public is just beginning to understand the implications of the Internet, and some of the companies we've recently invested in will be worth billions of dollars in a relatively short time.

I think the most promising area for investing today is in the Draper Fisher Associates partnerships, and I have put my money where my mouth is. We have over twenty investments in Internet companies, including Hotmail, Four 11, Cypress Research, iTV, nWebflow, Tracer, Netcentives, Preview Travel, Interzine, and Vividus.

I think it is a travesty that individuals who are not wealthy are precluded from investing in new ventures. Otherwise, I like Cisco–the bandwidth builder; AOL–the consumer owner; and Netscape–the only way to the net. Outside the Internet, I like SQA–serving the explosion of software engineers worldwide; CFM Technology–the only semiconductor equipment supplier who grew through the summer; and Cell Net Data Systems–a new wireless IPO serving the desperate utilities in their newly deregulated environment. Generally, I would avoid Microsoft, because their reign is nearing an end, and I wouldn't want to be a part of the fallout. I said this about IBM in 1984 and everyone thought I was crazy then, too.

Our Web page at *http://www.drapervc.com* has gotten a lot of acclaim, and actually brings in a lot of good leads. It also is a good resource for any entrepreneur, because of our extensive links, who wants information on Draper Fisher Associates or any other aspect of starting a company or getting a job in a startup. We also do get a lot more inquiries on email, but we still ask entrepreneurs to send a plan in as a first step to getting funded.

"Web Time" really worries me. I know that when I fund a startup, there are going to be three competitors within a month, and time to market is very important. The reason the Internet moves so fast is that many more people are starting companies in the space, and you don't have to be an electrical engineer to do it. So as the market expands as fast as our universe does, so do the number of people who can enter it.

Java. I never drink the stuff, it ruins my teeth. Actually, we like Java, but most of the C-code can translate directly to the Web, so why would I limit myself to Java only like some of these funds have? We tend to want to be more flexible than that.

I am just glad that I didn't limit myself early in the game to technology only. When I got started in the business with some money I borrowed, I was open to investing in almost anything. That included publishing and consumer products. We've had success with *Upside*, *Parenting*, Aviva Sport and Pete's Wicked Ale. As a result, as information technology moves into the consumer realm, I welcome the opportunities that it presents.

Eric Nee

editor-in-chief, Upside

enee@upside.com, URL: *http://www.upside.com*

The boom in Internet IPOs is over. The era when an Internet company with no profits, let alone no revenues, can go public as a concept play is over. That short period was the result of an overhyped market; reality has now settled in. That does not mean that the opportunity to go public at a very good valuation is over. There will continue to be companies with sound business plans and a proven financial history going public at very good valuations. Among the Internet companies likely to go out over the next year to eighteen months in this manner are: PointCast Inc., Cupertino, CA; Amazon.com Inc., Seattle, WA; and Ipsilon Networks Inc., Palo Alto, CA.

The best investment opportunities today are in companies developing faster network equipment, be it switching, routing, or what have you. The appetite for increased bandwidth will, for the foreseeable future, be insatiable. The ability of current networking equipment to handle that demand is limited.

Companies that can develop successful new equipment will find a ready market for their products, and a ready market for the company. Cisco, 3Com, Bay Networks, and others are ready to buy up any new company with promising technology. Witness the recent acquisition of Granite Systems Inc., Palo Alto, CA. Other

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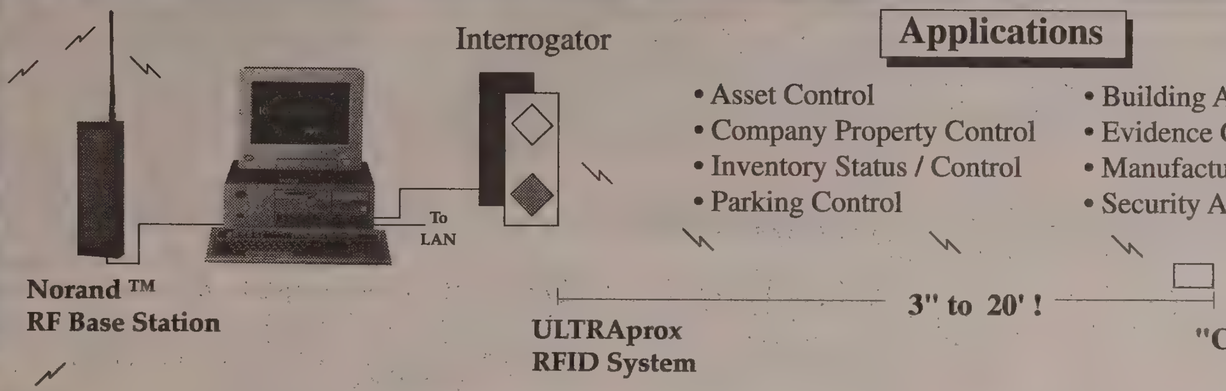

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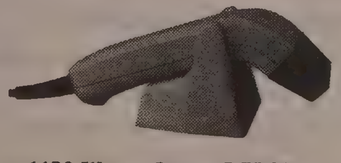

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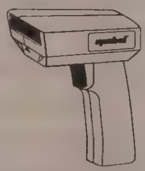

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The Internet has had some impact on business models to date, and is likely to have more impact in the future. A couple examples are as follows: 1) It is now possible to build market share very rapidly using the Internet as a distribution medium (just look at Netscape Navigator). Because it's possible to do this, companies will do it. The drive to build market share very rapidly has achieved much greater importance in business plans for the Internet than it did before. 2) The cost of distribution for bits has gone virtually to zero. This potentially has a large impact on any company that distributes bits as an important part of its business (radio, TV, publishing, software, financial services, etc.).

Certainly the phenomena known as "Web Time" has had a dramatic impact on the high technology industry, particularly in software. Netscape and Microsoft have only just finished making their latest version of browsers (3.0) available to the market, and they are already making plans to put the beta versions of 4.0 up on the Web for testing. They are able to do this for a number of reasons: 1) Because the software is free, users are much more willing to make frequent upgrades. If the user had to pay to make a couple upgrades a year, they wouldn't do it. 2) The ability of software companies to distribute their software at virtually no cost over the Web has made them more willing to do it frequently. 3) With a new technology, users are more willing to forgive minor bugs in the interest of having the latest and greatest piece of software.

The primary reason the Java fund managed by Kleiner Perkins Caufield & Byers was created was to help create a new Java industry (just look at the list of companies investing in the fund, starting with Sun Microsystems). This is in contrast to the reason why nearly all other venture funds are started, which is to make money. A fund which has other reasons to exist beside making money is a fund which is likely to underperform other funds. That said, there are certainly companies developing Java products which are worthy of investment.

> The boom in Internet IPOs is over. The era when an Internet company with no profits, let alone no revenues, can go public as a concept play is over. That short period was the result of an over-hyped market; reality has now settled in.
>
> —*Eric Nee*

The venture capital world has been willing to invest in companies targeting the consumer market for some time. It's often a more risky and costly investment because, in general, the price of entering the consumer market is higher than the cost of entering the business market. (To play in the consumer market requires large investments to build distribution channels, build a brand name, and slash operating costs). And contrary to popular opinion, VCs do try to minimize their risk and exposure.

Ann Winblad

partner, Hummer Winblad Venture Partners

awinblad@humwin.com , URL: *http://www.humwin.com*

Good companies do not need a boom to go public and many good private Internet companies are building their revenues and even moving towards profitability with a goal of going public sometime in the future. Certainly there is a lull right now–perhaps investment bankers and investors are just catching their breath. All companies tend to have an upswing on stock prices upon market entry and then a settling of the stock price as more shares enter the market, especially after the lockup period is over. Nevertheless, companies like Yahoo have a mattress full of money as well as a public currency for both growth and acquisition, which is a competitive advantage. The public market had taken on a much greater role of mezzanine investor for some companies and was playing the role of venture capitalist (investing when much risk is ahead).

Since our beginnings in 1989, we have invested in thirty-five software companies; we continue to focus exclusively on software. In 1990 we began investing in tools and applications companies that would own the significant opportunities in the distributed enterprise. This opportunity has been further catalyzed by the Internet. It is like the software industry is now on steroids.

The Internet has pushed the enterprise beyond client/server to n-tier computing, creating massive opportunities in tools and applications. Not only have we funded many new companies that will own significant market real estate in this area, but our early investments in distributed computing such as Arbor (NASDAQ: ARSW) and Scopus (NASDAQ:SCOP) have experienced revenue doubling and profit climbs as they have delivered products that span the distributed computing environment and extend beyond the enterprise to the Intranet.

We have also been active investors in content companies and enjoyed success in the smaller, earlier CD-ROM market (the old software on-a-platter model versus software on the net) with such successes as Humongous Entertainment (recently acquired by GT Interactive) and Berkeley Systems, now preparing to launch its own network entertainment site. The changing routes of commerce and the smoother distribution path direct to the consumer as well as enhanced business models supplemented by advertising and transaction revenues have created expanded business opportunities here as well and we are participating.

Over 150 entrepreneurs access our Web site each day and this number is growing. Email forces entrepreneurs to make their message crisp and clarify the exact market real estate they are going after (and lets me get back to them at night while I am sitting by my computer in my pajamas). Our Web site (*http://www.humwin.com*) lets people know what kinds of companies we fund and get acquainted with us long before they call or email. It has dramatically increased the information available on VCs and increased the velocity of quality of the companies reaching us.

Remember, the Internet is not a market, but a catalyst. It has changed the software market

continued on page 117

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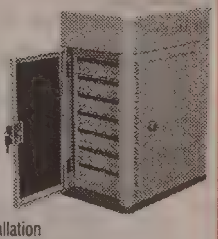

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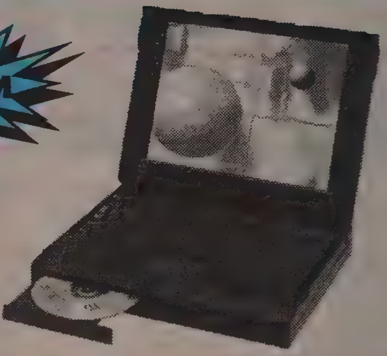

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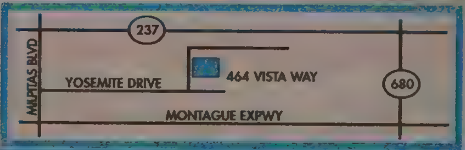

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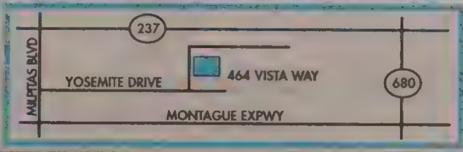

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GRAND PRIX 2.15GB(2151W)	409
GRAND PRIX 4.3GB(4301W)	749

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Colorado DJ50 1.4GB Int. w/Tape	162
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C1534 4mm DAT 2-4GB SCSI Int	555
C1536 4mm DAT 4-8GB SCSI Int.	645
C1533 4mm DAT 8-16GB SCSI Int.	855

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3C509B Etherlink III TPO/Combo	**56/82**
3C590 Etherlink PCI TPO/Combo	92/125
3C595-TX Fast Etherlink 10/100 PCI	**129**
3C905-TX 10/100(New Model)	**99**
3C16180 Linkbuilder 8 Port Hub	169
3C16170 Linkbuilder 12 Port Hub	299
3C16670 Linkbuilder FMS II 12 Port	459
3C250TX 12 Port Hub	1699

intel

EtherExpress 16 TPO/Combo	59/79
EtherExpress Pro 10 TPO/Combo	59/79
EtherExpress Pro 10 TPO/Combo Flash	69/89
EtherExpress Pro 10/100 TX PCI	**99**
EC 100 TX 12 Port Hub	1399

SMC

8416BT Ether EZ 16 Combo	69
8432BT Ether Power PCI Combo	89
9332DST Ether Fast 10/100	99

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NE2000 TP/Combo	19/20
5 Port/8 Port/16 Port	47/59/125
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Toshiba 4x/6x/8x IDE CD ROM Int.	58/80/102
NEC 4x/6x/8x IDE CD ROM Int.	55/75/98
Mitsumi 4x/6x/8x IDE CD ROM Int.	54/72/98
Sony 4x/6x/8x IDE CD ROM Int.	55/75/96
NEC 4x/6x/8x SCSI CD ROM Int.	78/145/205
Sound Blaster 16 Vibra PNP	75
Sound Blaster 32 PNP (retail box)	139
Sound Blaster AWE 32 PNP (retail box)	225
ESS 16-Bit Sound Card	28
60W/120W Stereo Speakers	16/32
180 Surrounding Sound Speakers	55
Altec Lansing ACS53/ACS300.1	129/199
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FAX/MODEMS

QuickTel 28.8 V.34 Int. (lifetime Warr.)	73
Creative Lab 28.8 V.34 int	85

USRobotics 5-Year Warranty

Sportster 33.6k V.34 Winmodem	104
Sportster 33.6k V.34 Voice	125
Sportster 33.6k V.34 Classic int/ext	125/146
Sportster VI 33.6k V.34 Voice int.	146
Courier 33.6K V.34 Int.	249

VIDEO CARDS

DIAMOND

Stealth 64 2000 1MB/2MB (DRAM)	59/69
Stealth 64 2001 MPEG 1MB/2MB	75/88
Stealth 64 VIDEO 2MB/4MB (VRAM)	159/249
Stealth 3D 2000 2MB (DRAM)	103
Edge 3D 2001 2MB (DRAM)	199
Edge 3D 2MB/4MB Video	327/477

ATI

Winboost 64 PCI 1/MB/2MB (DRAM)	$68/78
Winturbo 64 PCI 2MB/4MB (VRAM)	177/309

matrox

Mystique 2MB PCI	169
Mystique 4MB PCI	219
Millenium PCI 2MB WRAM	185
Millenium PCI 4MB WRAM	245

Number Nine

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Imagine 128 2MB/4MB VRAM	399/499

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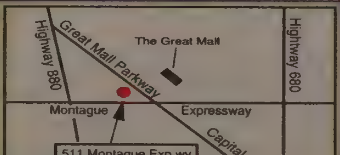

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from the fastest growing segment in the U.S. economy to an industry on steroids. I don't look at numbers, I look at the customers: their wants, needs, their pain, not statistics. I look at the cost of the route to the customer, the cost of customer acquisition and retention. I look at the core technologies and the competitive landscape. All of this points to a huge opportunity across many customer segments from corporate to consumer. The software industry will own routes of commerce, customer buying power, data and transactions. Software is becoming the fabric of everyday life.

In reality, the velocity of software development has accelerated dramatically. Component software is a reality and this is changing the tool set that developers use. There are over 3 million people employed in IT companies, with a likely 500,000+ software developers on the assembly line. They have more robust budgets and new needs for development tools. We are participating here as well. The software assembly line is the backbone of U.S. industry. We have a hot new company in this segment that will release a development tool this month: Intrinsa (*http://www.intrinsa.com*). But no beta mass marketing is no different than the past. It is an effective seeding strategy, the reach is to a broader set of customers via the net.

Wade Woodson

general partner, Sigma Partners
ww@spvc.com

The Internet/Intranet business opportunity continues to expand at a rapid pace. Several valuable companies with good management teams and sound business strategies have already emerged; many more will do so in the future. Unfortunately, the public equity markets are seldom able to accurately judge the rate of change in nascent technology segments. Sometimes they react too late, sometimes too early. In either case, they tend to overcompensate when the correction comes.

In the net space, the markets got ahead of themselves. In my opinion, this was due to the futuristic appeal of the space, excellent image marketing by some of the early entrants, and over-exposure by media people fascinated by a technology that promised to revolutionize information distribution–a business near and dear to their hearts.

I expect that the IPO market for Internet companies will quickly reawaken for "the next great thing." The window will not close until public investors begin to value net companies on earnings and revenue growth. So far, the market has instead played a fickle "new kid in town" game and given huge values to early mindshare leaders in new segments regardless of their unproven businesses.

Nothing can beat a face-to-face meeting. Nevertheless, email is an extremely useful tool for saving time. The Web is far less relevant. I would much rather spend thirty minutes talking to a founder than spend thirty minutes browsing his or her Web site.

–Wade Woodson

Great opportunities exist in both products and services for companies with unique, sustainable advantages. Personally, I believe that the venture capital model works best for product companies. It is for that reason that I am most interested in net infrastructure opportunities such as high-speed networking, microwave and other bypass strategies, and usable consumer access solutions.

Venture capital builds companies, not products. To date, there is little evidence that this approach applies to information services or content. I believe that the excess profits in that space will be retained by the content originators as soon as traditional companies become less awestruck by Internet technologies. Content origination itself usually requires either significant capital or else unique creative talents seldom found in the corporate formula. Outside of the net space, lots of money will be made in commercial software that enhances business productivity and in systems on silicon that enable new products.

Nothing can beat a face-to-face meeting. Nevertheless, email is an extremely useful tool for saving time. The Web is far less relevant. I would much rather spend thirty minutes talking to a founder than spend thirty minutes browsing his or her Web site.

In the IPO "Internet fever" of the past year, too many startups believed they were freed from the tedious requirement of developing a sound business model in which customers will pay more for a product or service than it costs to deliver it. The most exciting startups, net-focused or not, all have capable founding teams with past records of success, a unique technology solution with sustainable barriers to competition and a strategy to build meaningful businesses using modest amounts of capital.

So far, Internet companies have engaged in a desperate race for early mindshare, often at the expense of product quality and viable pricing models. This has been exacerbated by a lack of discipline in the investment community. Now that customers are actually beginning to roll net technologies into their businesses, vendors of business products will be forced to deliver quality, not just promises. That is not yet true in the consumer space because no one has developed a product that many consumers are willing to pay for! In all technology segments, however, the rate of change is increasing rapidly.

I think a good deal of the Java frenzy is due to wishful thinking amongst Wintel competitors. Nevertheless, Java is a good (though immature) language and will have a meaningful impact on the industry. So have structured programming, object-orientation and standardized transports like TCP/IP. In each of those cases, a few companies built interesting new businesses enabled by the technology shift but many more companies benefited by revising their existing products.

How many hundred-million-dollar companies will be created by applets, automatic garbage collection and portability? Not many. But lots of programmers, both MIS and ISVs, will adopt the language to increase their productivity. This will weaken Microsoft because they are tied to the huge legacy base of the C-oriented Windows API. Control of the API is the mantra Microsoft has lived by.

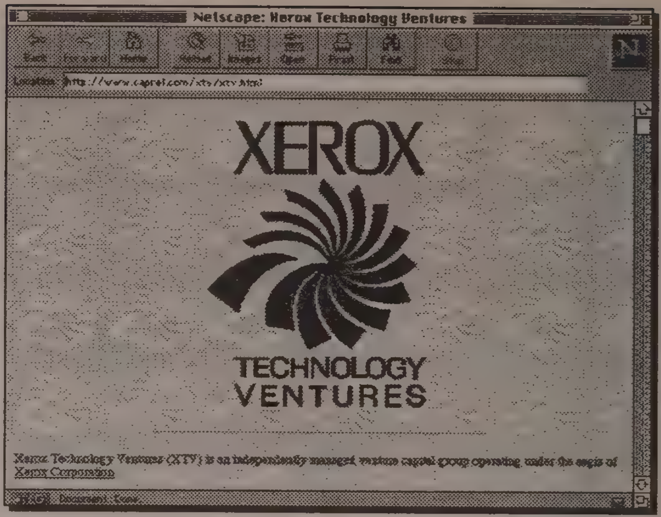
Historically, high-tech venture capitalists have made their money selling technology to technologists–a manageable market that can be approached on reasonable capital investments. As capital inflows into the venture business have increased, however, a greater appetite exists to pursue large markets in order to put larger and larger amounts of capital to work. In my opinion, there is little evidence to date that the venture community can effectively operate in spheres normally dominated by huge consumer, communications and media companies. A desire to find larger available markets does not create an entitlement to make money in them. ■

Venture Capital And The Web

TWO YEARS AGO, A TECHNOLOGY-RELATED VENTURE CAPITAL (VC) FIRM NEEDED TO BE "on-the-Net" for email communications. Today, if a VC firm does not have a corporate Web page, you might wonder if it should reconsider its investment mission. VC firms not only invest in the companies that build the Net and give us a reason to connect, but the Web is increasingly a critical business tool and resource for the investment community.

A search of the Web finds a growing number of venture capital home pages—be they technology firms or not. You can read VC mission statements and visions, examine investment portfolios, email the appropriate partner, and submit business proposals. In addition, the variety of related resources present on the Web continues to grow. Below is a selected list of venture capital firms and related resources on the World Wide Web.

—Michael Robin



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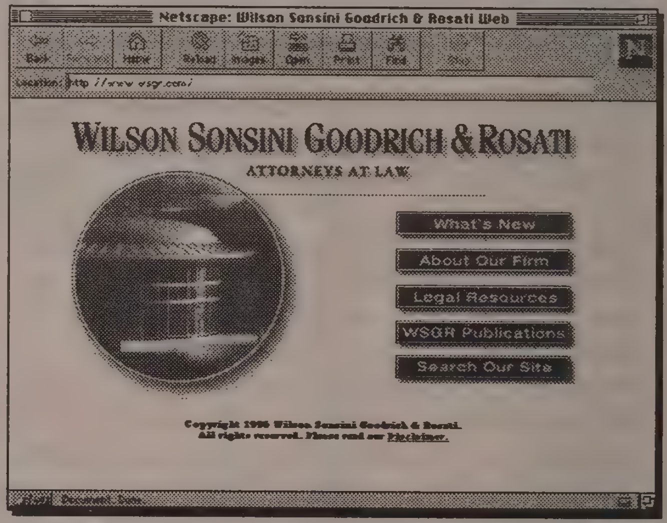
Xerox Technology Ventures (XTV) is an independently managed venture capital group operating under the aegis of Xerox Corporation



Location: http://www.wsgr.com/

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FIRMS:

Accel Partners
San Francisco, CA
http://www.accel.com
Invests in leaders of emerging markets in the information technology and healthcare industries.

Adams Capital Management
Sewickley, PA
http://www.acm.com/acm/
Invests in telecommunications, information technology, healthcare, and manufacturing businesses.

AT&T Ventures
http://www.att.com/ventures
Invests in new businesses that extend or complement AT&T's products and services in strategic markets, including multimedia services over networks and commercial Internet applications.

AVI Capital
Los Altos, CA
http://www.avicapital.com
Provides seed and early-stage venture capital for electronics and information technologies.

Battery Ventures
San Mateo, CA, and Wellesly, MA
http://www.battery.com
Invests in software, networking, and wireless communications companies that have early revenues.

Benchmark Capital
Menlo Park, CA
http://www.benchmark.com/
Focuses on early stage investments in software, networking, and semiconductors. Benchmark is an active investor and typically acts as a lead in organizing investment syndicates.

Bessemer Venture Partners
Menlo Park, CA, and Wellesley Hills, MA
http://www.bessemervp.com
Established in 1907, typically participates in early-stage and late-stage financing where venture capital has not been previously raised. Investments include multimedia, Internet, wireless networks, communications, and software companies.

Burr, Egan, Deleage & Co.
San Francisco, CA, and Boston, MA
http://www.bedco.com
Focuses on information technology, life sciences, and communications companies, with the majority of its investments in startups before the product or service has been brought to market.

Crosspoint Venture Partners
Irvine and Los Altos, CA
http://www.creative.net/crosspoint/
Sponsored by institutions, pension funds, corporations, and individuals for the purpose of providing seed and other early-stage equity capital, together with entrepreneurial management assistance, for new technology, healthcare, service, and distribution business opportunities.

Draper Fisher Associates
Redwood City, CA
http://www.DraperVC.com
Offers people-focused, early-stage venture capital investments to startup high-tech companies.

Digital Technology Partners
San Francisco and Los Angeles, CA
http://www.dtpnet.com
Specializing in the digital convergence industry with a focus on the Internet, online services, content providers, interactive multimedia, and supporting enabling technologies.

Hambrecht & Quist
San Francisco, CA
http://www.hamquist.com
Focuses on information technologies, environmental technologies, and branded consumer companies.

Hummer Winblad Venture Partners
Emeryville, CA
http://www.humwin.com
Focuses on investing in new and growing software companies on a diversity of computing platforms, including the Internet, client/server, communications, as well as education and entertainment.

Kleiner Perkins Caufield & Byers
Menlo Park, CA
http://www.kpcb.com
Invests in high-growth companies. Recently established the KPCB Java Fund targeted at new markets created by the Java programming language.

Maroon Bells Capital Partners, Inc.
San Francisco, CA
http://www.maroonbells.com
An international merchant banking firm specializing in providing corporate finance and advisory services to emerging companies for the global telecommunications and multimedia industries.

Mayfield Fund
Menlo Park, CA
http://www.mayfield.com
Founded in 1969, invests in early-stage technology companies.

Oak Investment Partners
Menlo Park, CA
http://www.oakinv.com/
Focus on information technology, biotechnology, and retail market sectors.

Sierra Ventures
Menlo Park, CA
http://www.sierraven.com/
Provides financing to start-up and emerging growth companies in information technology and healthcare.

Trident Capital, L.P.
Menlo Park, CA, Los Angeles, CA, Chicago, IL, and Washington, D.C.
http://www.trident.com
Private equity investment firm investing in information and business services companies. Associated with Dunn & Bradstreet.

Venrock Associates
New York, NY and Palo Alto, CA
http://www.venrock.com
Early-stage venture capital arm of the Rockefeller Family specializing in information sciences, healthcare, and biotechnology.

Xerox Technology Ventures Portfolio
El Segundo
http://www.caprel.com/xtv/xtv.html
An independently managed venture capital group operating under the aegis of Xerox Corporation.

RELATED RESOURCES:

ABC Financial
http://www.abc-financial.com
A corporate financial consulting firm providing various financial and managerial advisement services to companies in need of capital, merger, acquisitions, or divestiture.

American Venture Capital Exchange
http://www.businessexchange.com/avceinfo.html
Lists new ventures seeking capital and companies available for acquisition.

Entrepreneur Forum
http://www.upside.com/forum
An online, interactive community that brings together high-tech entrepreneurs with experts in the high-tech service industries.

Ewing Marion Kauffman Foundation
http://emkf.emkf.org/cel/eti/fellows/index.html
The Kauffman Fellows Program is a collaboration between the Center for Entrepreneurial Leadership Inc. and venture capital firms that engage in seed and early-stage investing. The program is designed to educate a new generation of entrepreneurs and venture capitalists who will learn the venture process by studying with experienced venture capitalists and entrepreneurs.

InterSoft Solutions FinanceHub
http://www.FinanceHub.com/welcome.html
Offers selected links to the best sources of venture capital, commercial banks, entrepreneurial resources, investments, etc.

The Investment Exchange
http://www.tinvex.com/
Provides a matching service for investors and fund seekers. Offers fund seeker listings.

Krislyn's Favorite Venture Capital Sites
http://www.krislyn.com/sites/venture.htm
Offers useful links to venture capital firms and resources on the Web.

O'Connor, Broude & Aronson
Waltham, MA
http://199.103.128.199/emgbiznc/cntprovs/svcprovs/oba/
Represents corporations, partnerships, and joint ventures in venture capital and other private financing, public offerings, mergers and acquisitions, and international transactions, as well as day-to-day legal matters.

VentureOne
http://www.v1.com/
Provides research and consulting services to venture capital firms, growth companies, and related service professionals.

Venture Law Group
Menlo Park, CA
http://www.venlaw.com/
A fifty-lawyer law firm that specializes in representing deal-intensive technology companies, both public and private, and the venture capital funds and investment banking firms that finance them.

Wilson Sonsini Goodrich & Rosati
Palo Alto, CA
http://www.wsgr.com
This high-technology law firm represents computer hardware and peripherals, semiconductor, interactive new media, telecommunications, biotech, and medical device companies and venture capital firms.

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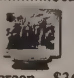
DX17T 17" 1280x1024, .26dpi	$699
MXE17T 17" 1600x1200, .26dpi	$call
MX21F 21" 1600x1200, .26dpi	$call

VISIONMASTER iiyama



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ViewSonic 17PS 17" 1600x1280 .25dpi.	$710
ViewSonic 21PS 21" 1600x1280,	$call
ViewSonic PT810 21" 1600x1280	$call

Acer

AcerView 34T 14" 1024x768 N-I.28dpi.	$230
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AcerView 56E 15" 1280x1024 Flt-Scr.	$335
AcerView 76IE 17" 1280x1024 .27dpi	$575

HITACHI

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SuperScan CM2110 21" 1600x1280	$1625

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VIDEO CARDS

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Stealth 64 3D 2MB DRAM PCI/VLB	$135
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Stealth 64Video 2MB VRAM PCI/VLB	$185
3240XL 3D Sound,Video Accl 2MB	$call
Stealth 64 2MB VRAM UPGRADES	$105

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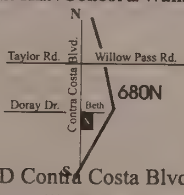

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ATi

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Number Nine

9FX771 PCI/ 2M/4M VRAM	$245/357
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SPiDER Graphics, Inc.

Spider Lynx64 1MB PCI Video card	$75
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Spider 64 VLB/PCI 2MB/4MB	$139/239
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HARD

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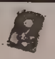

7541A 541MB 12ms IDE	$159
71084A 1GB Enhanced IDE 14ms	$170
71626A 1.6GB Enhanced IDE 12ms	$220
72004AP/A 2.0GB Enhanced IDE<12ms	$255

Quantum

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QM31280FBA 1.2GB EIDE 12ms	$199
QM31700SRA 1.7GB EIDE 12ms	$235

Seagate

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ST51080A 1.08GB EIDE 10.5ms	$189
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ST32140A 2.1GB EIDE 10.5ms	$259
ST51080N 1.08GB SCSI-II 10.5ms	$245
ST32155N 2.1GB 9ms 512K Ultra SCSI.	$539
ST32155W 2.1GB 9ms 512K WideSCSI.	$619
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ST32550N 2.1GB 512K SCSI-II 8ms	$739
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ST15150N 4.3GB SCSI-II 8ms	$call
ST410800N 9GB SCSI-II 1024K 11ms	$call

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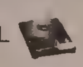

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ADAPTEC 3940W Wide Dual Chn. PCI	$367
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PROMISE EIDE for ISA (Built-In BIOS.	$45
PROMISE 2300+ EIDE VLB...(W/BIOS.	$59
DTC VLB EIDE w/16550 IOs	$38

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TEAC 1.2MB 1.2"/1.44MB 3.5"	$40/34
TEAC 1.2/1.44 Combo Floppy Drive	$90

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IOMEGA ZIP/JAZ Ext.SCSI Drive	$call

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FAX/MODEM

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Practical Peripherals 28.8 Int/Ext.	$199/220
US Robotics PCMCIA 14.4/28.8	$185/320
US Robotics Vi 14.4/33.6 Voice Int.	$95175
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US Robotics 14.4/33.6 Internal	$85/150
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US Robotics Courier I- ISDN/ v34	$call
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Motorola Bitsurfer ISDN Int. Modem	$259
Harmony 33.6 Int Voice Fax/Modem	$110

CASES w/ POWER SUPPLY

AT Desktop case w/ 230 Watts UL P.S.	$45
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- * US.Robotic 33.6K Fax Modem .
- * Super Mid Tower Case /250Watts UL P.S.
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- * Keytronic 104 Enhanced Keyboard

Cyrix 686x-166Plus	*$1645*
Cyrix 686x-150Plus	*$1591*
PENTIUM 166MHz	*$1776*
PENTIUM 150MHz	*$1647*
PENTIUM 133MHz	*$1591*
PENTIUM 120MHz	*$1541*

Monitor Not Included

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- * 16MB EDO RAM 60ns.
- * 1.2GB EIDE Hard Drive.
- * EIDE 8X CD-ROM
- * Sound Blaster 16 PnP
- * Amplified Stereo Speakers
- * 1.44Mb Floppy Drive.
- * PCI 32BIT EIDE w/ (2)16550 I.O.'s (1)Par.
- * PCI Diamond Stealth 64 Video Card 1MB DRAM (64Bit Graph. 16.7MBColors.)
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- * Microsoft Mouse
- * Keytronic 104 WIN95 Keyboard
- * Windows95 w/ Manual and Registration

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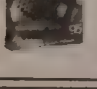

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PARAMOUNT
COMPUTER

The Making Of An Internet Business

Part 1: Déja Vu All Over Again

By Royal P. Farros

Royal P. Farros is president of iPrint, Inc., an Internet printing and cyberstationery shop. Formerly co-founder and chairman of T/Maker Company (purchased by Deluxe Corporation in 1994), Farros helped create such award-winning software as PFS: First Publisher, WriteNow, and the ClickArt series of image portfolios.

This series of articles is chronicling the ups and downs of a new Internet business. You can visit iPrint, Inc. at URL: http://www.iprint.com.

I have a wife, two kids, and, thanks to recently selling my old company, no mortgage payment. (Well, okay, the two kids are really two dogs, but Dobermans tend to take a lot of energy.)

I was about to realize an American dream with an early retirement, having put my entire life on hold for well over a decade building one of those "overnight success" software businesses.

But just when you think it's safe to go into retirement, Michael Jordan starts playing hoops again and the once-in-a-generation opportunity called the Internet hits you like a ton of old 8" disks.

It's a great time to start a new business—an Internet business. (Wish I could insert one of those overly dramatic punctuating sound bites from an old B-movie right about now. Hey, if this article ever makes it onto a Web page, I can!)

So what compels a person to climb back into the muck and give up a well-deserved rest? Or, for that matter, give up nice, safe employment that might even lead to job satisfaction and a secure future in middle management? (Shouldn't there be a Dilbert cartoon panel inserted here?)

Greed?

Well, sure. I think the more politically correct term is capitalism. And boy, have we seen a lot of capitalism lately. Netscape. CyberCash. Yahoo. Mergers. Acquisitions. $7 million companies being bought for $165 million in stock. No wonder the stock market has just replaced home ownership as America's favorite nest egg.

I've seen this movie before and I liked it so much that whether the timing is lousy or not, I'm compelled to see it again. Not just because I like the ending, but because the whole thing, uncut and uncensored, has meaning and merit.

Desire?

Certainly. For some, once you've got that itch—that meaningful idea in your head—it's impossible to suppress the feeling that you can do something important. Create something significant. Change the way the world thinks. Or just make a few people's lives a bit nicer.

Insanity?

Maybe just a touch. Giving birth to a new business (well, giving birth to anything, really), is a tough, tough task. That first push is a doozy.

But there's nothing crazy about the way to succeed in business. It takes good old-fashioned dedication, determination, and discipline. Smarts help, but common sense is best. Don't forget "the hunger." If you don't agree with this, you might as well play the lottery: You won't win, but at least you'll think you're trying.

The Internet: Déja Vu All Over Again

When Yogi Berra said it's "déja vu all over again," he must have been talking about how similar the Internet opportunities of today are to the desktop software opportunities of the '80s.

Think about it. Email looks like bad dot-matrix output. Spelling checkers are primitive. It's still expensive to buy advertising. And while some people are enormously excited about the technology, the vast majority are even more confused by "http://" than they were with "c:/" (Ouch... hard to believe we could "improve" on that standard).

Believe it or not, this feeling of déja vu is a big advantage for a lot of us. I've seen this movie before and I liked it so much that whether the timing is lousy or not, I'm compelled to see it again. Not just because I like the ending, but because the whole thing, uncut and uncensored, has meaning and merit. It's tough, fun, and worthwhile. The accomplishments are what good memories are made of.

Office space may be cramped. Machines won't be as fast as you'd like. And there never will be enough time or resources to do what has to be done. But now is one helluva exciting time to be in the software business, the likes of which we may not see again for another decade.

Want to start an Internet business? Time to hit the net running. ■

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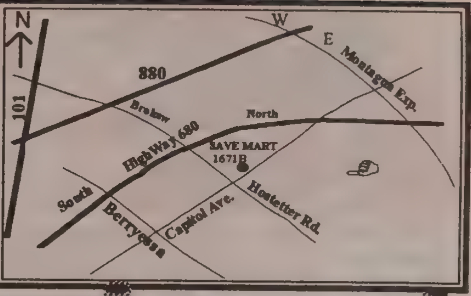

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Tucson P-133/256K pipeline PCI (ATX)	435
Tucson P-120/256K pipeline PCI (ATX)	396
Tucson P-100/256K pipeline PCI (ATX)	330
Marl P-200/256K pipeline PCI (ATX)	750
Marl P-166/256K pipeline PCI (ATX)	545
Marl P-150/256K pipeline PCI (ATX)	420
Marl P-133/256K pipeline PCI (ATX)	354
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Atlantis P-133/256K Pipeline PCI	440
Atlantis P-120/256K Pipeline PCI	405
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Endeavor P-150/256K Pipeline PCI	458
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Endeavor P-120/256K Pipeline PCI	355
Endeavor P-100/256K Pipeline PCI	290
Intel Triton P-200/256K Pipeline PCI	695
Intel Triton P-166/256K Pipeline PCI	498
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Intel Triton P-133/256K Pipeline PCI	320
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486DX5-133/256K AMDPCI +IDE I/O	120
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- * KeytronicWin95 keyboard
- * Microsoft Mouse w/ Pad
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- * Free CPU Cooling Fan
- * **Windows95** full versionCD
  (Monitor not inclued)

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Pentium® Pro200 MHz

$ 2175

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- ***Windows95** full version CD
  (Monitor not inclued)

Pentium®	Processor
200 MHz	$1843
166 MHz	1647
150 MHz	1532
133 MHz	1469
120 MHz	1430
100 MHz	1380

TUCSON SYSTEMS

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- * Logitech Mouse w/ Pad
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- ***Creative Lab 28.8** faxmodem
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  (Monitor not inclued)

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166 MHz	1657
150 MHz	1542
133 MHz	1479
120 MHz	1440
100 MHz	1390

Best Buy Systems

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- * TEAC 1.44 Floopy Drive
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16 MB 60ns 72 PIN (4x36)	135
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30 PINS MEMORY

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104 WIN95 keyboard	13
Mitsumi 104 WIN95	15
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Focus 2001/Focus 7200 w/ Trackball	28/35

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Sony 17SF2 17" monitor	755
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Mag DX15T / DX17T	390/655
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28.800 Supra PNP / voice PNP	90/95
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US ROBOTICS 28.8/33.6 PNP (internal)	145
US ROBOTICS 28.8/33.6 PNP (external)	159
US ROBOTICS Fax/Modem 28.8 w/voice	160

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2- Not responsible for typos.
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4- 15% Restocking fee on returns. No refunds after 7 days.

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- * 850 MB EIDE HD
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- * Impression 14" SVGA .28 NI Monitor
- * Mini Tower Case LED w/230W P.S.
- * 104 Win 95 keyboard *Logitech Mouse w/ Pad

486DX5-133/256K AMD	662
486DX4-120/256K AMD	660
486DX4-100/256K AMD	655
486DX2-80/256K AMD	655
486DX4-100/256K intel	682
486DX-33/256K intel	660

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- * Intel Triton VX PCIw/256K pipelined
- * Intel Pentium® CPU w/ Cooling fan
- * 16MB RAM installed 72 pin
- * 1.44 Teac Floopy Drive
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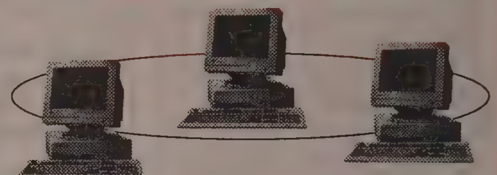

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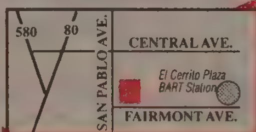

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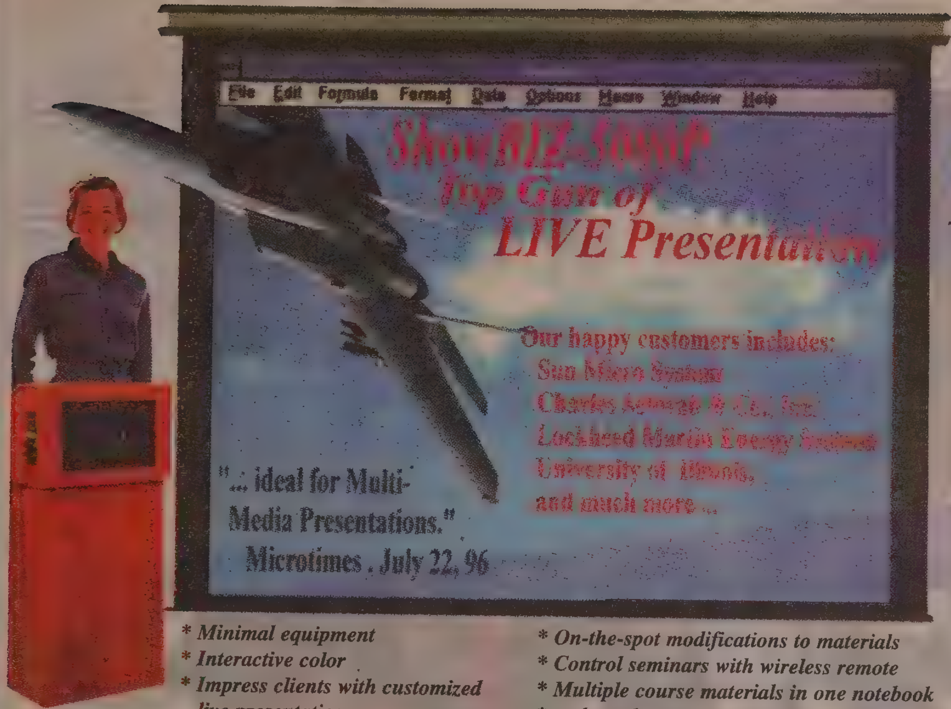

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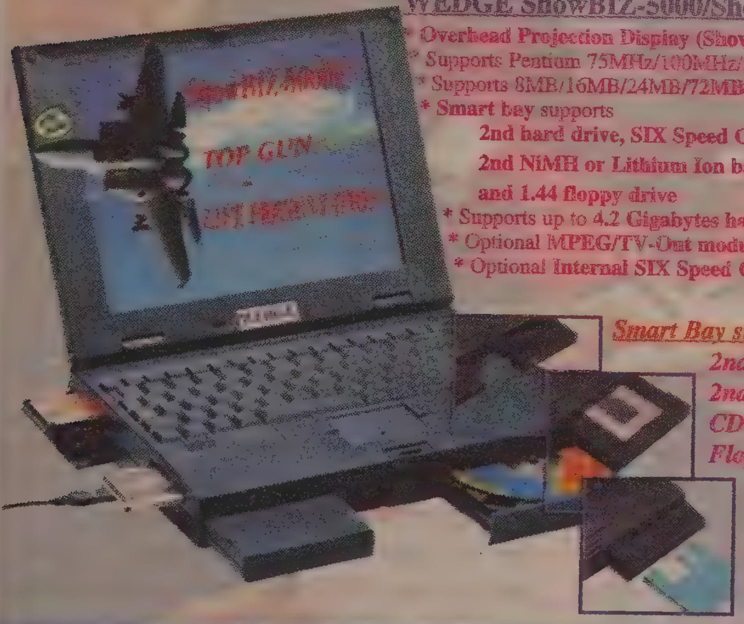

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Hot Money In Search Of Cool Technologies

New Specialized Funds Lead The Charge To Capitalize On The Explosion Of The Internet

By I. Satya Sreenivas

There is no shortage of money chasing the latest cool technologies in the Internet arena. Mind you, this is not from ordinary investors like you and me, but rather, from savvy and smart venture capital (VC) firms. According to analysts, venture capital investments in Internet-related companies will grow from its current level of around $600 million to over $1 billion in 1997.

Given the hype and hoopla surrounding the Internet, it is no wonder that venture capital firms are jumping onto the Internet bandwagon. But the latest twist to this tale is the launch of two new specialized funds to capitalize on the Internet phenomenon. These funds herald a new era of relatively easy availability of capital and the emergence of focused investment niches within the larger internetworking arena. In general, they highlight the growing momentum of the Internet tidal wave.

Recently, the Silicon Valley-based Kleiner Perkins Caufield and Byers launched a $100 million venture capital fund—The Java Fund—to finance early stage companies that are using Java, the hot new programming language originally developed by Sun Microsystems and currently licensed by the virtual who's who of the software world. The second fund—Flatiron Partners—is aimed at investing in early stage Internet software, services, and media companies primarily in the New York Metropolitan area and along the east coast. This fund was created by Chase Capital Partners, a division of Chase Manhattan bank, and Softbank Corporation, a Japanese software distribution giant with interests in publishing computer-related magazines and one of the largest organizers of computer trade shows and expositions.

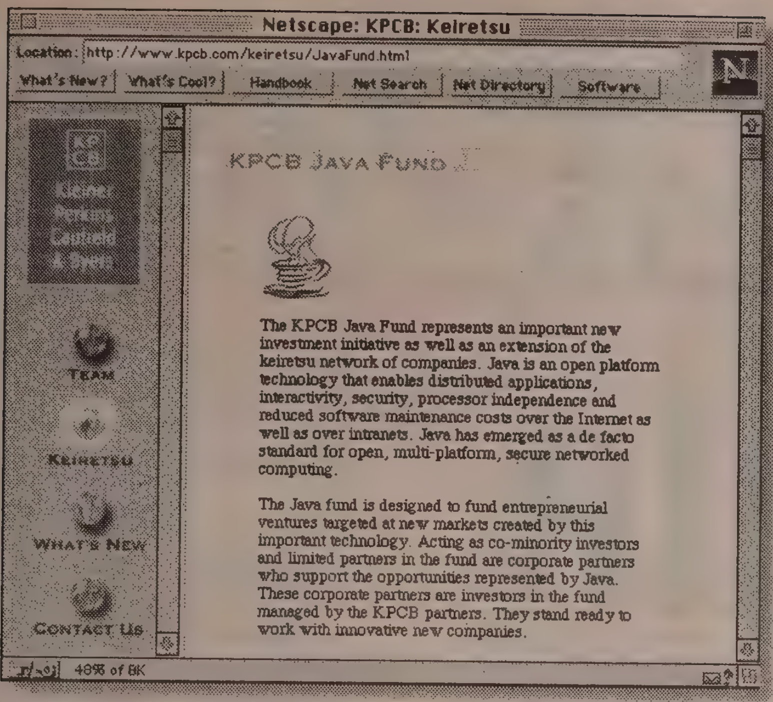
Thus, from virtually nothing only a few years ago, the Internet has become one of the most sought after investment avenues. According to Mark Stevens, general partner at Sequoia Partners, a venture capital firm based in Menlo Park, "Total venture capital investments in technology are around $5-6 billion. According to my estimates, nearly 10% of this investment total is going to Internet companies. Considering that investment in the Internet is still a new phenomena, this growth is amazing."

The Kleiner Perkins Java Fund has a very narrow focus: funding companies using Java Script. Given its exclusive focus and special niche, the fund is bound to energize entrepreneurial activity around Java Script and the Internet. Initially, the fund generated a slight controversy as some people viewed it as an anti-Microsoft alliance seeking to curtail Microsoft's domination in this new digital world. Dan Chu, an associate with Kleiner Perkins, denied any such motives and held that Java is a strategic opportunity with immense growth potential.

"Java is a unique language and a great technology with excellent potential. Kleiner Perkins saw a great opportunity to capitalize and capture the momentum of this platform. With its specific focus, The Java Fund sends a message to start-up companies that the tide is rising, and the potential is immense," said Chu.

While The Java Fund is focusing on just the Java Programming language, the Flatiron Partners fund has a broader focus, encompassing all technologies relating to the Internet, but with a limited geographical focus. The fund is designed to invest in companies in the emerging Silicon Alley of New York City. Whether this fund would make the Alley a worthy competitor to the Valley is anybody's guess, but one thing is certain: It will help boost technological advancement in the Internet arena.

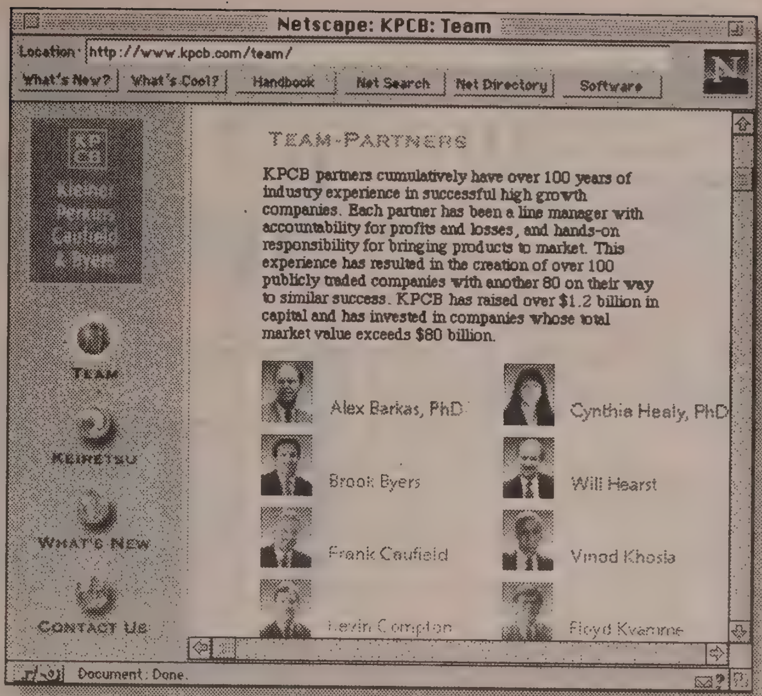
According to Fred Wilson, General Partner of Flatiron Partners, "Despite the growth of New York's Internet and new media community over the past few years, no brand name venture capital firm is focused on Internet investment opportunities in New York. Flatiron will fill that void, and with the financial backing of Softbank and Chase Capital Partners, we are positioned to become the dominant Internet-focused, early stage venture



KPCB JAVA FUND

The KPCB Java Fund represents an important new investment initiative as well as an extension of the keiretsu network of companies. Java is an open platform technology that enables distributed applications, interactivity, security, processor independence and reduced software maintenance costs over the Internet as well as over intranets. Java has emerged as a de facto standard for open, multi-platform, secure networked computing.

The Java fund is designed to fund entrepreneurial ventures targeted at new markets created by this important technology. Acting as co-minority investors and limited partners in the fund are corporate partners who support the opportunities represented by Java. These corporate partners are investors in the fund managed by the KPCB partners. They stand ready to work with innovative new companies.



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KPCB partners cumulatively have over 100 years of industry experience in successful high growth companies. Each partner has been a line manager with accountability for profits and losses, and hands-on responsibility for bringing products to market. This experience has resulted in the creation of over 100 publicly traded companies with another 80 on their way to similar success. KPCB has raised over $1.2 billion in capital and has invested in companies whose total market value exceeds $80 billion.

capital firm in New York and on the east coast."

In this environment, "smart" venture capital is available for Internet-related start-ups. Gary Valenzuela, Senior Vice President and Chief Financial Officer of Yahoo Inc., one of the early success stories, concurred and said: "The increasing interest of venture capital firms to invest in the Internet is a positive development. The special focus of these new funds offers Internet companies educated financing with a clear understanding of technology, and provides solid board-level expertise."

In addition to funds with an exclusive charter, other investment firms are not very far behind. They are searching the landscape for the next big idea that can create the next Apple, Microsoft, or Intel of the new, digital domain. The venture firms are casting their net far and wide and looking for technologies that will help fuel the growth of the Internet, and emerge as blue-chip stocks with multibillion dollar valuations.

"Internet is the next big idea, [similar to what] the PC was in the '80s. We are interested in investing in early stage companies with a strong technology, a solid management team, and a potentially large market. We are focusing on enabling technologies, remote access equipment, new interactive forms of content, technologies to enhance bandwidth, and corporate Intranets," said Stevens of Sequoia Capital. He added that Sequoia is expecting these types of companies to provide returns in the high teens.

Jerry Colonna, of Flatiron Partners, echoed this in the belief that "the Internet represents a fundamental change in computing, communications, and media businesses. New York's Silicon Alley is rivaling the Silicon Valley. A new culture is emerging [that is] made up of highly motivated, media-savvy entrepreneurs building companies in the Silicon Valley mold. These companies number in the hundreds today, but should grow to the thousands by the decade's end."

Some observers, however, are worried that the hype surrounding the Internet may contribute to the venture capital firms lowering their evaluation criteria for investment, resulting in too many start-ups that never go beyond the stage of blueprints and business plans, or even if when they do, the products of these firms will simply die in the market place. Whether or not this fear is justified, it is certain that easy availability of venture capital will lead to a mushrooming of companies.

Despite the bullishness of Wall Street and Main Street, the results of the first wave of Internet-related companies have been mixed. For example, how can you fairly evaluate America Online? It seems to be going in multiple directions, at the same time—adding new subscribers at a rapid pace, a low retention level of new subscribers, and advertising revenues that are growing, but at a slower level than anticipated. Another aspect of these roller coaster stock prices is that the frenzy and hype on Wall Street has pushed the valuations of the firms beyond their intrinsic value. This is the case with Netscape, which, as an extremely young company, skyrocketed at one point to a $3 billion valuation.

Stevens also pointed out that, "The high valuations without profits cannot go on forever. There will be a shakeout. Some of the first wave of Internet companies will hit the wall, and may even vanish. Delivering the promise is very important for Internet companies to attract and sustain investor interest."

No matter how much capital is available, entrepreneurs cannot expect to get funding for any and every project idea. Stevens said that apart from a having a strong technological edge, it is important for companies to be one of the early birds. "The fifth browser company, the tenth search engine company, or the twentieth Internet service provider would find it hard to justify venture capital investments into their companies."

Valenzuela, who is no stranger to raising venture capital, said that attracting venture capital needs a professional and strategic approach. "While the availability of venture capital and specialized venture funds are a boon to the Internet start-ups, it is still essential to have a good core technology, an experienced management team, high-growth market, and if possible, a strategic partner. That would attract the attention of VC's," advised Valenzuela. ■

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RESOURCES:

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BMUG • By David Morgenstern

System 7.5.5 Update Arrives

Plus: The Perils Of Betaware; The Prospects Of Be-ing

This month the BMUG column will take a look-see at some recent events around the Mac world, offer some tips, and bring news on system software updates.

In addition, I'll offer a brief flame on the recent rise in the release of beta software by developers. Light the burners. Onward!

Please Release Me

Apple planned on shipping a System 7.5.4 update software in the middle of September; however, some "last-minute quality issues" (er, bugs) cropped up with the release, and it was delayed until the end of the month. Unfortunately, some of the boo-booed updaters found their way into the world, so the company instead decided to number the corrected version System 7.5.5.

The update will improve performance with virtual memory on new and older Macs. It especially will speed the time it takes to switch between large applications and documents.

The new version also will fix a problem that wouldn't let some programs load, and then would report inadequate memory—even though the About This Macintosh box under the Apple menu showed that plenty of RAM was available. In addition, the update will cut down on memory-related Type 11 errors that have plagued Power Mac models.

Apple says that the new version will require programs to use a bit more memory—23 kilobytes. If you install the update and then get an error message complaining that an application needs more RAM, you can change its allocation by running the Get Info command and boosting the Preferred size number by at least 23K.

In addition, the update will fix some bugs with PCI-based Mac systems, including the random freezes that happen sometimes when accessing files on the hard drive. It also will improve performance and reliability with Ethernet, especially on 5400 and 6400 series machines.

System 7.5.5 will also incorporate the code found in the System 7.5.3 Revision 2 update. The most important of these are fixes for the SCSI drive problems mentioned in the column a few months ago, and performance and reliability gains for PowerPC PowerBooks. In addition, it takes care of the trouble that users had when waking up PowerBooks that had Connectix's RAM Doubler versions 1.6 and earlier.

Apple took the release as an opportunity to explain its numbering scheme for future system software versions. Amazingly, it follows a sensible pattern.

If an update features major architectural changes, the first number after the decimal point will change. If updates bring only improvements in reliability and performance, the third digit will be tweaked.

The new numbering convention replaces old Software or Hardware Revision naming styles, which are very difficult to track.

In case you need to track the many flavors of System 7.5, here's a run down of its history.

- System 7.5 was the original shrink-wrap version sold in stores.
- System 7.5.1 was what you found after adding Update 1.0.
- System 7.5.2 was the version that shipped with the PCI desktop Macs and PowerPC-compatible notebooks: PowerBook 190, PowerBook 5300, and PowerBook Duo 2300 systems.
- System 7.5.3 was shipped on some desktop Macintosh computers and resulted from adding Update 2.0 to previous versions.
- System 7.5.3 Revision 2 came standard on some Macs and also with the Revision 2.0 updater.

More Better ßetas?

In 1988, I wrote a piece for the BMUG Newsletter titled "Bad Vibes in ßetaville." It described the then-recent practice of selling prerelease software to users.

Now, if you buy a Performa or Mac clone that comes bundled with a bundle of software, you may not even be aware that there is a mountain of titles in stores, on the Net, and in shareware. Traditional shrink-wrapped software and formally released Internet programs are the "real" versions; the beta versions are supposed to be for the final stages of testing.

I didn't like the idea back then of paying for betaware, and—guess what?—I still don't.

The old article's title paid homage to the classic French science fiction film *Alphaville*, directed by Jean-Luc Godard. This 1965 film showed the adventures of Lemmy Caution, played by Eddie Constantine, in a city of conformist robots ruled by a dictator. (Not that I would ever make such a comparison to today's situation!)

At the 1988 Macworld Expo in San Francisco, Silicon Beach sold several hundred beta copies of its SuperPaint graphics application. While users were eager to run the program, the company had a financial reason to ship the product early: It needed an influx of cash, since a distributor had just gone bust owing Silicon Beach a bundle of dough.

The verdict by BMUGers and industry mavens was mixed. Some users thought that the betaware releases were fine since they brought needed capabilities to market more quickly. Others thought that the practice should be confined to the cognoscenti, power users who knew what they were in for and could guard for the inevitable crashes.

continued on page 248

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Online Guide

INTERNET • BY JOHN S. QUARTERMAN

Ease-Of-Use On The Internet

A Reality Check

As a reader of this column, you know the Internet has doubled in size every year since 1988, so every year there are as many new people on the Internet as the net's total population the previous year. You know the Internet (finally) really does have forty million people or more, with more than half of them in the United States, and that this growth and size has caused it to go from esoteric to ubiquitous to pervasive in the space of a couple of years.

Okay, so what does the typical Internet user see when browsing the Internet?

Let's ask one. Call her Lindsey, because that's her name. She's 14 years old and an honor student, so she's probably more knowledgeable and eloquent than the average user, but we need that to find out what she thinks.

By the way, to get the full picture, you have to imagine the telephone ringing every ten minutes or so, stomach rumblings, etc. I'll leave all that out in the interests of brevity, but it's important to realize the typical user doesn't just sit down and use the Internet for hours on end; often it's hardly even minutes at a stretch. In some ways television requires a longer attention span, although the Internet requires more interaction.

What Is To Be Found?

"What should we look for?" I ask.

"I saw an ad on TV for the Cartoon Network on America Online." To a typical user, the Internet is mostly the Web, of course.

"Oh, why not. Is it visible from outside AOL?" I ask.

"I don't know. Let's see."

How To Find It

Netscape is already running (on the home SPARCstation, but never mind that). I would just do Open and type *http://www.aol.com* , but evidently that's not the obvious method. The typical user doesn't automatically guess or remember a likely domain name for a URL.

Our intrepid explorer pulls down Directory, then presses Netsearch. That gives us Magellan (URL: *http://www.magellan.com*).

What to look for? She tries "Cartoon Network." Twenty-plus pages of responses, but nothing on the first couple of pages looks likely.

Magellan has its own menu; she tries Kidzone, then Arts and Entertainment. That has a search window, too, and she tries "Cartoon Network" again. "Calvin and Hobbes?" "Disney's Pocahontas?" Nope.

She tries "Cartoon Channel." It seems AOL didn't pick a particularly memorable name, or at least the ad didn't succeed in making it memorable.

Twenty-plus pages again. "Cartoon Express," "Cartoon Arcade," "Ren & Stimpy?" Nope.

"How many of these pages would you normally look at, if you were just trying to find something?" I ask.

"Oh, two or three, depending on whether I find it or not."

I doubt many people actually wade through all twenty pages. I know I don't.

Alternate Search Engines

"Have you tried a different search engine?" I ask.

"No, but it had Yahoo!, and Whoop-de-do, and so on."

> **It's *IMPORTANT* to realize the typical user doesn't just sit down and use the Internet for hours on end; often it's hardly even minutes at a stretch. In some ways television requires a longer attention span, although the Internet *REQUIRES* more interaction.**

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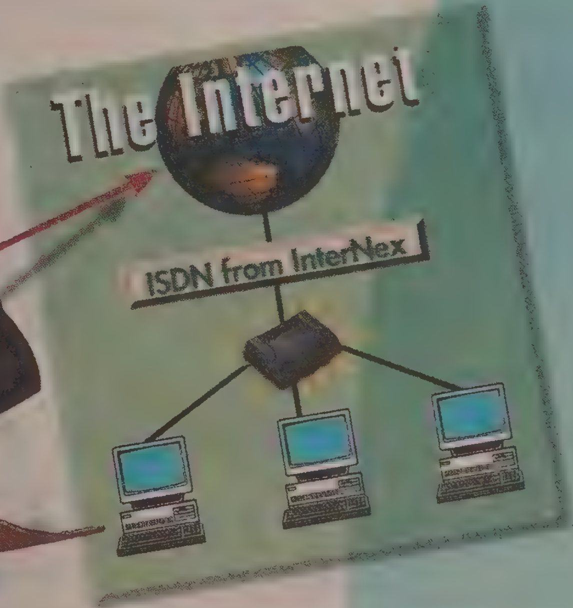

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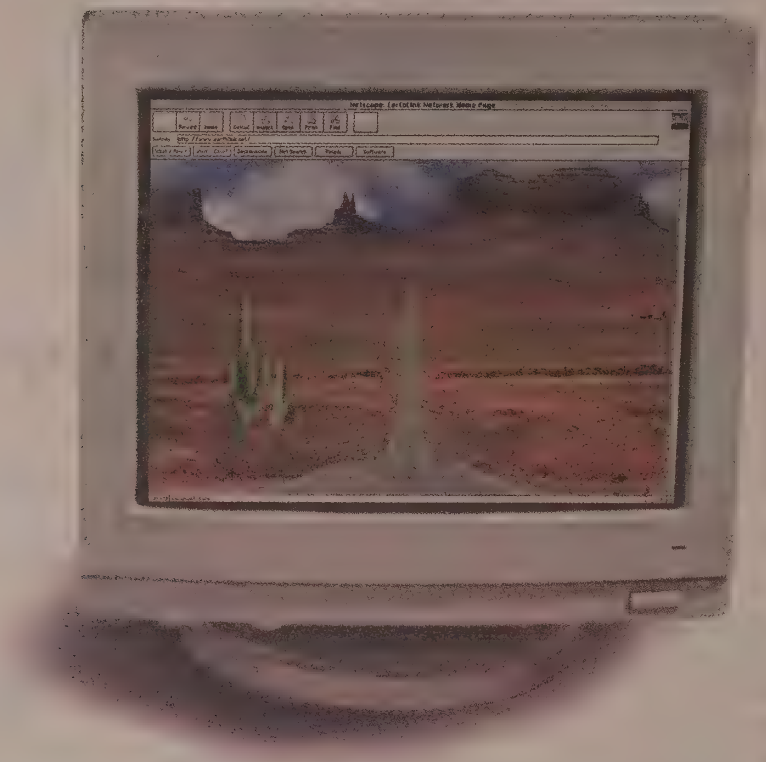

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“What about Altavista?” I ask.

Puzzled expression: “What's that?”

“It's the biggest search engine.”

“Oh.” Unimpressed. Back to Magellan.

Alternate Searches

“Did you say AOL along with Cartoon Network?” I ask.

“No, I haven't tried that yet.”

So she tries “America On-Line” by itself. An obvious concept to somebody with a computer science background, namely further qualifying the search by adding more keywords, doesn't register at all with the typical user.

> **“What are you finding?” I ask, as she is reading the technical description of the AOL Windows software.**
>
> “NOTHING INTERESTING.”

We find “America's Cup On-Line” and assorted other stuff.

“I think they spell ‘Online’ as all one word,” I say.

“Oh, okay. I'll take out the dash.” She removes the hyphen and tries again. This time we find AOL. Several entries for it, actually.

She selects *ftp.aol.com* . Under that she tries bin. Then windows. She doesn't realize that an FTP server provides a different kind of space that isn't going to lead us to anything with cartoon pictures. To her it's just more of the Web.

“What are you finding?” I ask, as she is reading the technical description of the AOL Windows software.

“Nothing interesting.”

She backs up and tries the other AOL selection, which happens to be *www.aol.com* . She's paying no attention to the URLs, by the way; they're just noise. She's reading the text of the search result entry.

She gets a pop-up window and reads from it: “Oops, ‘Unable to connect... server error’” She reads the whole thing, but I'm sure you've seen it enough times that I don't have to repeat it here.

“What does that mean?” I ask. She knows I already know, but gamely answers anyway.

“AOL doesn't have a page right now. Actually, probably it does, but we just can't get there right now.”

“So what's going on?” I ask.

“Something's wrong.”

Modern Expectations

The telephone rings. I promised not to tell you about that, but this is her friend who has an AOL account, so she asks him if he has any spare

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AOL disks we can try here.

She turns to me and asks, "Do you have a CD?"

"Not on the PC notebook I have here. It would have to be a floppy."

"Oh, a floppy? Hmm. They do send disks every now and then, but not usually."

"Maybe your mother has one."

We ask her, and she says, "I get so many of those I automatically throw them in the trash as junk mail." A brief search confirms that mass mailings can be counterproductive: not an AOL disk in the house.

Let's Try That URL Again

"Woohoo!" AOL decides to respond this time.

"Top twenty-five Web sites."

"But what are you finding?" I ask.

"A whole bunch of stuff. The Weather Channel. Disney. Bill Gates. But it's not even in the top twenty-five." As we have demonstrated elsewhere ("The Place of French in the Internet," URL: *http://www.mids.org/mn/607/french2.html* in *Matrix News* 607), what's popular on the Internet is mostly what's popular in the global culture, and our explorer orients herself by familiar landmarks.

Since old Bill has a network competing with AOL, I remark: "Those are probably external Web sites, not AOL ones."

"That's true, let's try AOL headquarters."

Then What's Hot ("Nothing there."), then Explore. "Just things. Another search engine. The Better Business Bureau. Now I'm going to do a search in Web Crawler for 'Cartoon Network'."

"Okay, I think I found it. 'Cartoon Network!' 'Toon Jam Turner Home Network.' Web Crawler worked the best."

"Was that what you were looking for?" I ask.

"No, I thought it would be something where you could go and see things. It's not."

"What sorts of things?" I ask.

"Different things. Cartoons. The advertisment said it would have the Cartoon Network Schedule."

"So do you think the advertisment led you somewhere worthwhile?" I ask.

"Haven't even found AOL yet!"

Turns out she's looking at something on *hypercast.co.uk* , which of course isn't AOL at all; it's a completely different server in the United Kingdom. But our intrepid explorer is still posting progress reports.

She backs up a bit. "We're in America Online Explore, and we've flipped around a whole bunch. Let's try About AOL. Okay, here we go. Never mind, I went to What's Hot again. Who would want a million dollar Web crawler? OK, I'm going back to AOL headquarters."

Software Off The Net!

"Oh, cool! Try America Online! Download software!" effused our fearless detective.

"SunOS 5.5.1 doesn't seem to be an option."

"Windows 3.0?" she asks.

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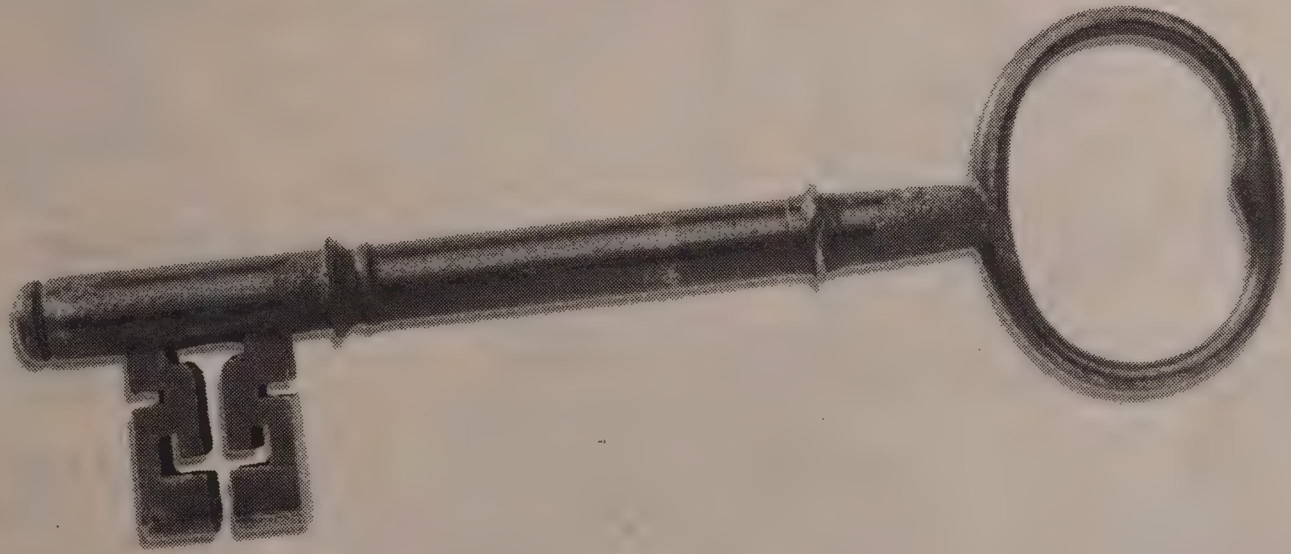

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"Click. Hummm." says the phone.

"Should we go to my friend's house and try his copy?" Lindsey asks.

"No," I say, "let's wrap this up and turn in the column before my editor sends another of her subtle reminders."

So, Is The Internet Easy To Use?

Compared to setting up software for a centralized service such as AOL, evidently so. I'm not recommending that everyone go out and get a home SPARCstation, but I do know that many small Internet Service Providers (ISPs) provide floppies or downloadable software that will get you online quicker and with less bother than our experience with AOL.

Nor is this column hate mail for AOL (well, except maybe for sticking us in voicemail hell). I imagine our experience would have been much the same for CompuServe, Prodigy, or any other huge centralized service. Covering the country or the world comes at a price in local responsiveness.

Even AOL's Web pages point to a lot of things that are NOT on AOL. A local ISP with a Web interface such as Netscape has a fighting chance against even those biggest boys.

The real point here, I think, is that any system that tries to set itself up as a central market is going to have a hard time compared to the Internet. Because it is decentralized, the Internet encompasses a huge skein of diverse services, even including AOL, CompuServe, and Prodigy, all of which made the leap a year or so ago.

There will probably be a market for their sort of customized user environments for a few years yet, maybe longer; lots of people like their particular big city or small town and don't want to venture out into the wider world much. But even AOL's Web pages point to a lot of things that are not on AOL. A local ISP with a Web interface such as Netscape has a fighting chance against even those biggest boys.

Be that as it may, the Internet is clearly easy enough for a 14-year-old to use. ■

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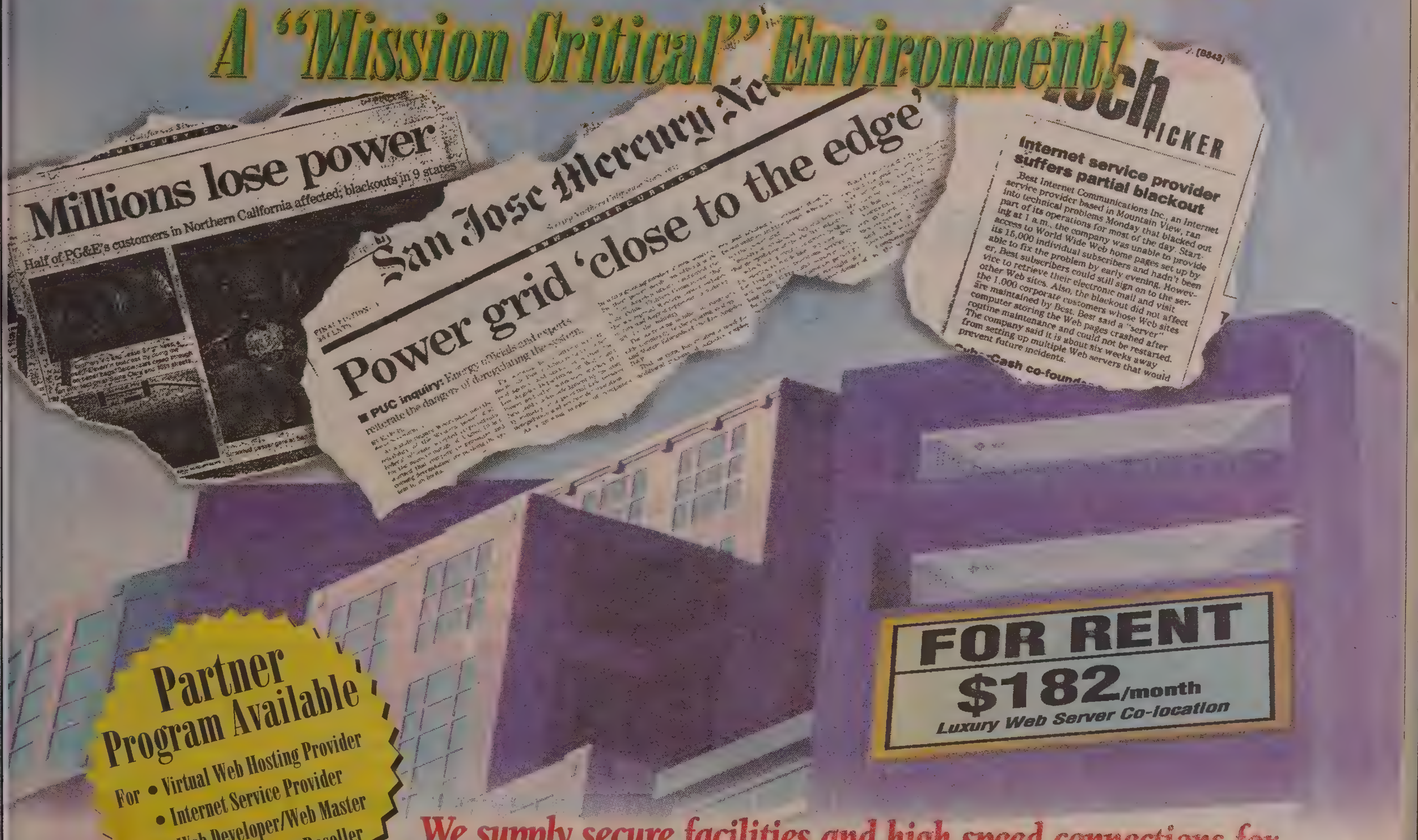

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Best Internet Communications Inc., an Internet service provider based in Mountain View, ran into technical problems Monday that blacked out part of its operations for most of the day. Starting at 1 a.m., the company was unable to provide access to World Wide Web home pages set up by its 15,000 individual subscribers and hadn't been able to fix the problem by early evening. However, Best subscribers could still sign on to the service to retrieve their electronic mail and visit other Web sites. Also, the blackout did not affect the 1,000 corporate customers whose Web sites are maintained by Best. Best said a "server" computer storing the Web pages crashed after routine maintenance and could not be restarted. The company said it is about six weeks away from setting up multiple Web servers that would prevent future incidents.

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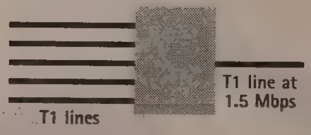
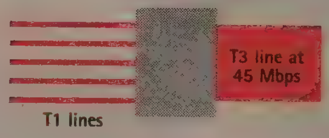


Many providers feed T1 connections into cramped, oversold lines, reducing performance.



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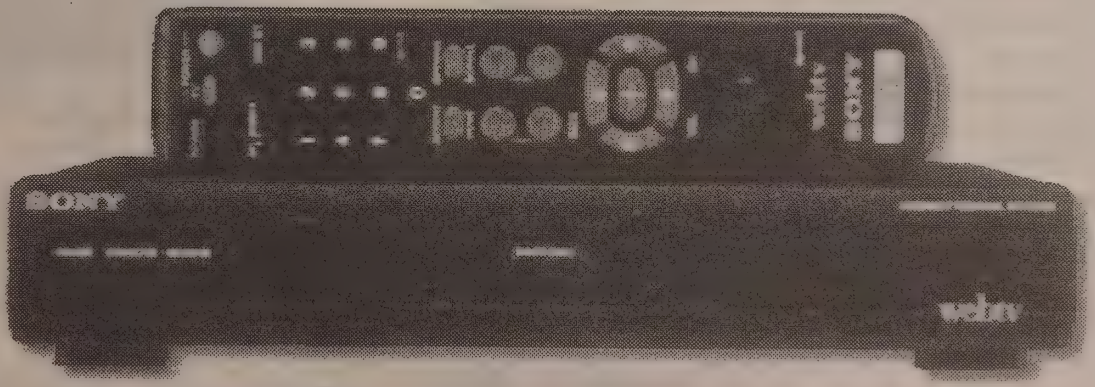
ONLINE SERVICES • BY BILL GRAM-REEFER

WebTV For The Masses

Ready For Prime Time?



*The whole WebTV experience is patterned after the ease-of-use found in most modern **"TV-like" experiences.** Turn it on and change the channel. It works.*

Have you stopped by your local consumer electronics store lately? If not, hop in the car and check it out, 'cause something new has just pushed its way onto the shelves.

WebTV set-top boxes, licensed by Sony and Philips, have arrived ahead of schedule and are ready, out of the box, to be used with the WebTV Network based out of Palo Alto, CA. We're talkin' the World Wide Web on your own ever-lovin' TV set, so fire up that 40-inch Mitsubishi.

Essentially, you get the set-top box, sort of like a satellite TV box. It's about the size of a VCR, and includes a 33.6 Kbps modem. Connect one end to your phone line and the other to your TV. Then, for only $19.95 per month, you get unlimited net access. Available now, the Sony model is priced at $349, while the Philips/Magnavox brand will retail at $329.

You also get some other goodies like toll-free customer support and up to five separate, personal accounts can be registered per unit, including personalized address books. A MessageWatch feature tells you if new email has arrived—a blinking light on the set-top box just like those found on telephone answering machines!

The Web browser is up to snuff, supporting HTML 3.0 and most Netscape and Explorer functionality. It will download the latest updates for you automatically, too, so you always have the latest features on hand. More importantly, the set-top box you purchase in 1996 will still work for you in 1997.

Included is a search engine and Explore, a WebTV directory which previews and selects the best sites on the Internet, helping you learn to surf without getting drowned. Around Town is a guide of U.S. cities that presents the vast content of the Internet in a place-centered way. SurfWatch enables parents to filter inbound content. The device also guards against line interruptions by those pesky call-waiting interruptions or someone taking an extension off the hook while WebTV is doing its thing.

The set-top boxes also have a way to take your money. Each has a built-in slot for a Smart Card that will allow subscribers to safely make purchases and do other online banking transactions. Options include infrared keyboards or standard PC keyboards that can be attached to the back of the set-top box.

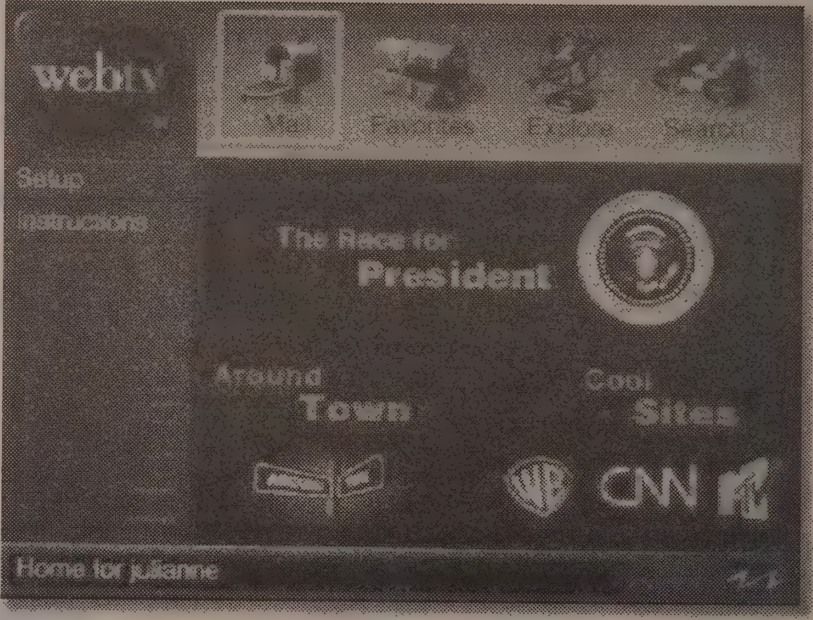
Flicker? Just something you see at the movies. Regardless of screen size, WebTV presents Web pages without any on-screen flicker. Installation takes less than fifteen minutes. Then, One-Thumb Browsing allows users to switch from their favorite TV show to the Internet with the touch of a button. RealAudio, MIDI, and MPEG2 audio are already integrated into the system. No installation or configuration is required for CD-quality stereo sound.

Plug And Play

The whole WebTV experience, as you are beginning to see, is patterned after the ease-of-use found in most modern "TV-like" experiences. Turn it on and change the channel. It works. No poorly translated, obtuse VCR instructions here. WebTV has successfully implemented the entire TV aesthetic. You even get to play with a 16-mil-

Online Services *continued...*

We're talkin' the World Wide Web on your own ***ever-lovin'*** *TV set, so fire up that 40-inch Mitsubishi.*



lion color palette, transparencies, dissolves, wipes and cross-fades as transitions between images. You can't do that on a Mac, no matter what Guy Kawasaki says.

The WebTV set-top boxes are not based on some cost-reduced PC architecture, but a combination of advanced, patent-pending technologies based on the WebTV Reference Design, allowing a low-cost mass-market consumer item to double as a high-performance multimedia computer.

Compare this to Gateway 2000's PC-TV that ranges in price from $3,800 to $4,700 for 120-MHz Pentium processor, wireless keyboard, 16 MB RAM, CD-ROM and V.34 modem, all jacked in and around a 31-inch TV. More on the mark is Zenith's NetVision, a 27-inch TV with built-in Web browser and 28.8Kbps modem, originally expected in January, due this fall for around $1,000.

Chicago-based Multimedia Systems (***http://www.mcs.net/~visiplex/tvlink.html)*** offers TVLink, its own set-top box for around $475 (including keyboard).

Talk about ground floor opportunities! MultiMedia is busily pounding the pavement offering prospective Internet Service Providers with franchise deals to become small, medium or large TVLink Internet access servers. It doesn't need to be sold into home TV applications, or one particular network. When activated from the

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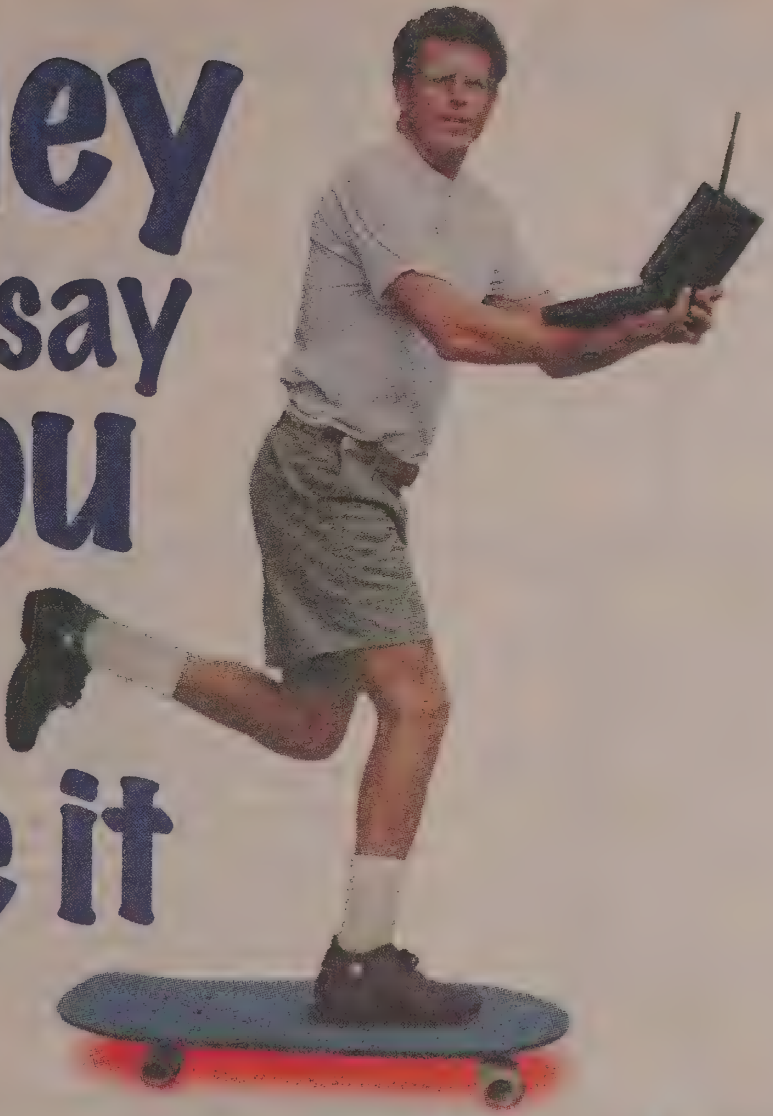

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Online Services *continued...*

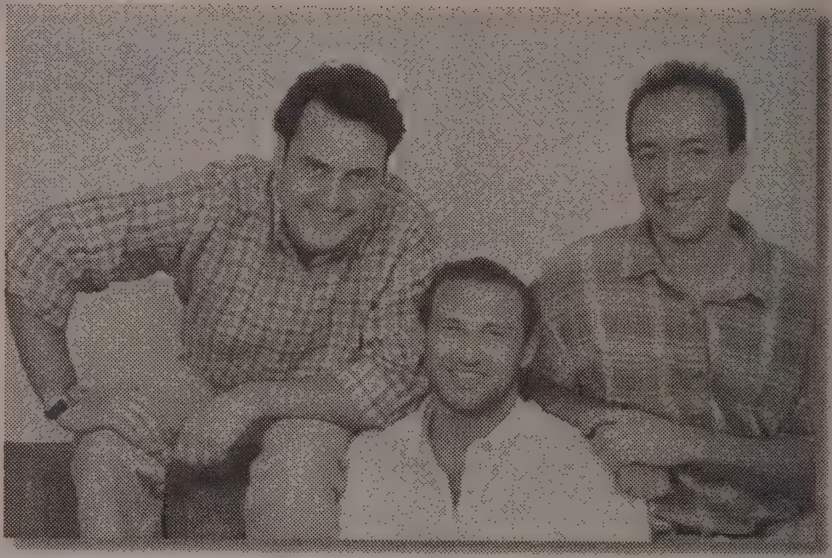
remote control, the TVLink calls a server computer. The TVLink user can then access a broad range of activities: financial information, home shopping, and even dating or escort services with pictures and voices online. Imagine the entire red light district of every town in your own living room. Too handy for words.

Limitations

The crucial drawback to WebTV is that modem-thingy. Souped up V.34 at 33.6Kbps is not going to do "real" TV video. So there goes the TV illusion right there, as even at 33.6, you'll be drumming your fingers while waiting for the One-Thumb Browser to download the Vatican art collection, or Keith Jackson's quote of the week from ESPN SportsNet.

One should also be suspicious of WebTV's claim that it has its own private tube to the Internet to ensure that you won't get stuck on the same crawling net traffic that the rest of the Internet rabble gets at five pm. The Internet being what it is, "virtual private networks," as WebTV touts its connection, can only be so "virtual" and only so "private."

And as much as simplicity appeals to Internet newbies, the truth of the matter is that simplicity runs a distant second to bandwidth. In fact, while the WebTV set-top box you buy in 1996 may have one-button functionality and limitless on-board rewritable ROM for all of the new plug-ins it will ever install, you still may need a serious upgrade to an ADSL or cable modem in 1997 so you can get the multi-megabit throughput you'll really want.



Steve Perlman, Phil Goldman, and Bruce Leak, founders of WebTV Network, on the couch ready to surf the Web.

@Home Gets Real

If you don't believe me, go ask a friend who lives in Fremont, CA, one of the first cities where TCI Internet Services is offering its @Home Network. It's now available to consumers in about a fourth of the neighborhoods there; subsequent

continued on page 144

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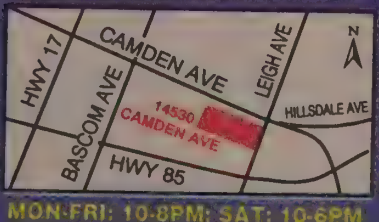

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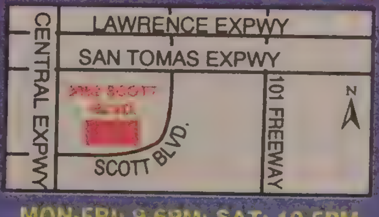

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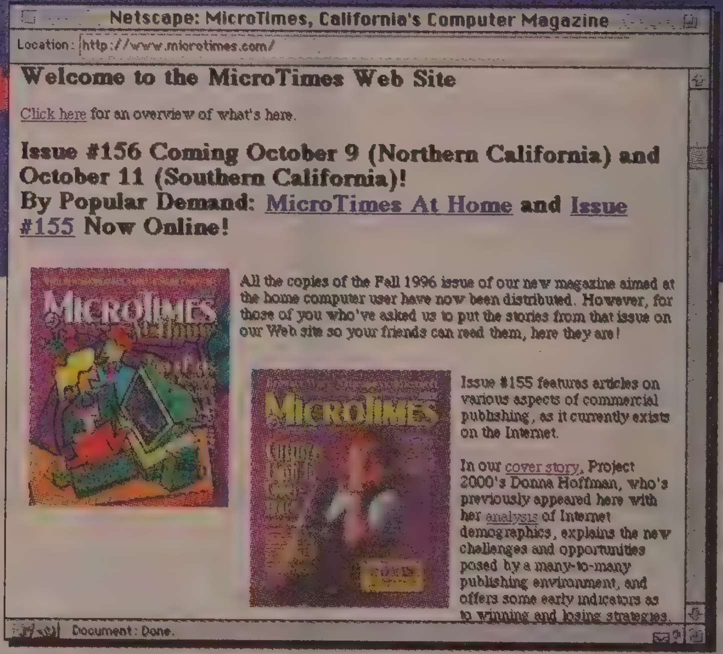

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Issue #155 features articles on various aspects of commercial publishing, as it currently exists on the Internet.

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- 32MB memory
- 2GB EIDE hard drive
- 1.44MB TEAC Floppy Drives
- 33 6 int. fax modem/voice
- Diamond Graphics w/2MB Vram
- 15" Non-interlaced .28mm SVGA
- 8X EIDE CD-ROM
- SoundBlaster 16-bit sound card
- 25 watt stereo speakers
- Logitech 2-button Mouse w/Pad
- MaxiSwitch NOVA 104-key Keyboard
- Middle tower with Power Supply
- **MS Windows 95**
- **Anti-Virus for Windows 95**

PRO-200 $2,486

Multi-Media Systems

- Pentium® processor
- 256K cache, 16MB memory
- 1.2GB EIDE hard drive
- 1.44MB TEAC Floppy
- PCI Graphics w/1MB
- 15" Non-interlaced 28mm SVGA
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- 8X EIDE CD-ROM
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- Middle tower with Power Supply
- **MS Windows 95**
- **Anti-Virus for Windows 95**

6x86-166 $1,446

120MHz	$1,337
133MHz	$1,387
166MHz	$1,588

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NetWare 3.12 50 user	$1.641
NetWare 3 12 100 user	$2.347
NetWare 4 1 10 user	$524
NetWare 4.1 25 user	$671
NetWare 4.1 50 user	$900
NetWare 4.1 100 user	$1.241
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12 port Ethernet Hub	$215
24 port Ethernet Hub	$345
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3COM 16-bit Ethernet. RJ45	$80
Intel EtherExpress PCI Pro/100	$145
HP JetDirect EX Plus	$295

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- WWW Home Page design
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- 16-bit Ethernet card
- 8X IDE CD-ROM
- Middle tower with Power Supply
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Online Services

continued from page 140

neighborhoods will be activated through the end of the year. TCI's @Home Network delivers broadband interactive services and content directly to the customer's PC via a really high-speed cable modem that's easily twenty times faster than anything you'll get with a V.34 modem, even on a good day.

Subscribers to @Home Network receive 24-hour unlimited access to the Internet, a high-speed cable modem, electronic mail and chat, a customized @Home Web browser and a menu of local community content for $34.95 per month. A one-time installation fee of $150 dings you for the dataport, Ethernet card and @Home software. Not as simple, for sure. But fast? You bet.

Residents of Fremont who want @Home service have to live in an "activated" neighborhood and can sign up for the service by pointing their browser to URL: *http://www.home.net*, or by calling @Home toll free at 1-888-407-9200.

I don't have a Ph.D. in technology or marketing, but it sounds to me like Sony and Philips should be talking to the folks from @Home. If you can split the downstream cable signal to a PC, why not to a WebTV Reference Design-savvy set-top box that is connected to the TV? Putting a cable modem in the box that can be configured to interact with @Home's IP feed and home directory and search engine, instead of WebTV's home directory, is an obvious next step. Sony could do this in its sleep.

TCI could even let customers subscribe to other cable-fed IP "channels" besides @Home so you could still get WebTV's so-precious network value-add instead of the touchy-feely features from @Home. "When pigs fly," you say? How cynical!

Just remember you didn't have to buy an expensive, exclusive industry report based on a survey consisting of two telephone calls. Instead, you read it here first in *MicroTimes*, which is always free. Any content delivery that relies on V.34 modems or ISDN is dead on arrival. The real deal for the WebTV Network is ADSL modems that can provide the same broadband throughput that the cable modems can, but only over regular copper telephone lines.

We hope the WebTV Network is serious about being in business in 1998. If they are, they and Sony or Philips, and whoever the laughing boy is they are leasing their IP tube from, had better begin implementing ADSL this week. ■

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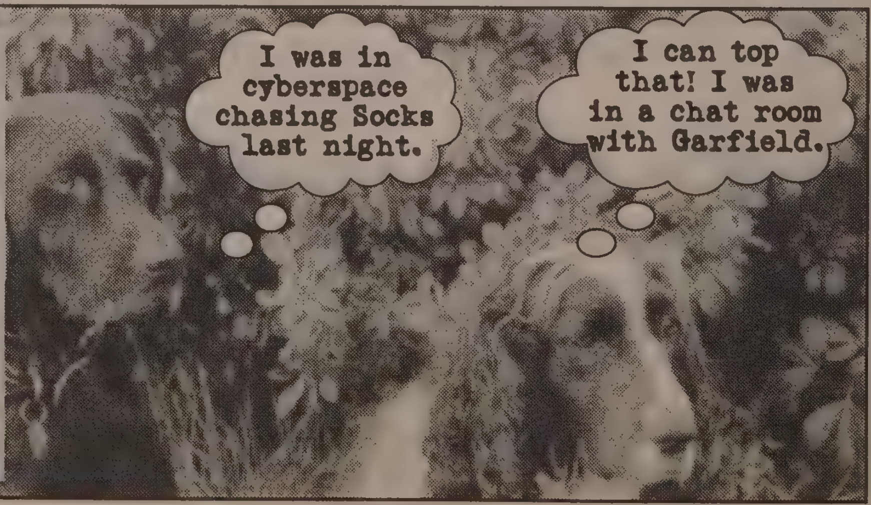
I was in cyberspace chasing Socks last night.
I can top that! I was in a chat room with Garfield.

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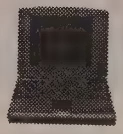

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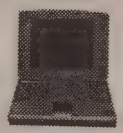

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P5 100, 256K & CPU	259
P5 120, 256K & CPU	289
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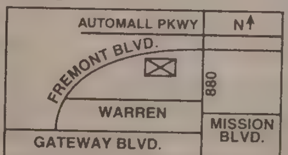

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Web Page Listings

COMPUTER PRODUCTS & SERVICES

Aboretum Systems, Inc. *http://www.arboretum.com* We publish Hyperprism, a real-time sound effects processing software for the Macintosh. Free demos. [Exp. #156.]

Accord Systems Inc. *http://www.accordsys.com* Laptop service and repair. [Exp. #156.]

ACP Superstore *http://www.cyberswap.com* We offer computer swapmeets, an auction house for computers and electronics, a close-out warehouse, and specials. [Exp. #158.]

Acutrack *http://www.acutrack.com* Acutrack is a turnkey software duplication company specializing in CD and diskette duplication. [Exp. #158.]

Advantec Computer Company *http://www.advanteco.com* Sale SUN Workstations with spare parts. We also offer Depot Repair Center and maintenance program. [Exp. #156.]

Alex's SASCO PC Products *http://home.earthlink.net/~sj4square/sasco/index.html* SASCO offers top quality PC accessories and peripherals—motherboard, printer, scanner, hard disk drive, data media, memory, and more. [Exp. #156.]

All Laser Service *http://www.netcom.com/~laser/als.html* Laser printer supplies and repair, memory products, toner cartridges. Laser printer parts. Inkjet mailers and compatible cartridges. [Exp. #156.]

American Photo Syndicate *http://www.american-photo.com/* Thousands of Web-sized photos: supermodels, movie stars, fashion, cars, earthquakes, and more. [Exp. #158.]

The Animated Software Company *http://www.animatedsoftware.com* Interviews with technological pioneers, educational software, articles, shareware, Mountain Pike Park, animation secrets, and more. [Exp. #156.]

Barnabas Consultant's *http://www.netcom.com/~barnacon* Computer/LAN sales and maintenance and repair. [Exp. #158.]

Blue Planet *http://www.blue-planet.com* Your source for quality storage solutions, including CD-ROM, optical, hard drives, and laptop drives. [Exp. #156.]

BradyGAMES *http://www.mcp.com/brady* Downloadable shareware, demos, cheats and hints, Gamers Connection, and an interactive site for the Command & Conquer series. [Exp. #157.]

CalComp Connect *http://www.calcomp.com* Descriptions, specifications, and pictures of CalComp products. Tech Support, new product info, special offers, and more. [Exp. #156.]

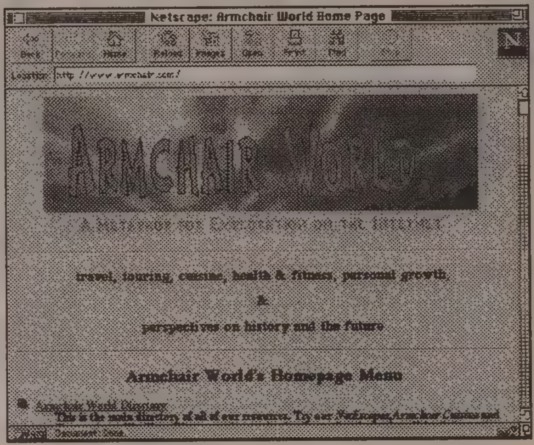
Components Direct *http://www.componentsdirect.com* Your source for memory and hard drives at the lowest prices. [Exp. #158.]

Constor Manufacturing, Inc. *http://www.constor.com* Manufacturer of external drive enclosures. Your plug-n-play data storage connection. Provides a complete solution for external data storage products. [Exp. #156.]

Control Memory Factory *http://www.controlmemory.com* Double your memory for free—upgrade listing for over 4,500 computers, printers, and everything else. [Exp. #157.]

Cyber Plaza USA *http://usa.cplaza.or.jp* NEC's Cyber Plaza features a weekly column by Ken McCarthy on business and technological developments in Silicon Valley. [Exp. #158.]

Digital Production Services *http://www.accessone.com/digital* Video production, Avid training, rental, and support. [Exp. #158.]



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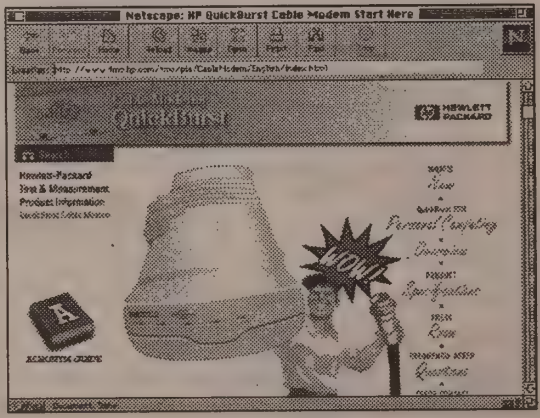
Armchair World's Homepage Menu

http://www.armchair.com



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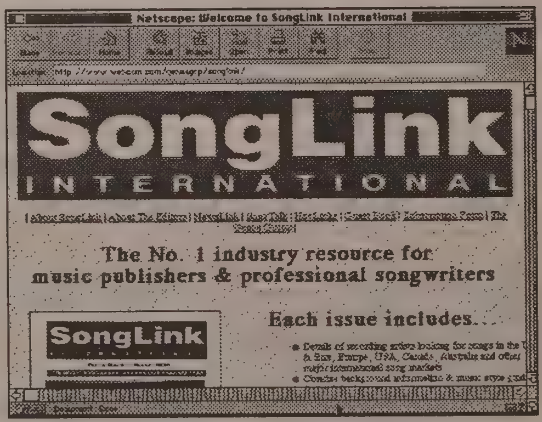

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HiTek Solutions, Computer Education Centers *http://www.hiteksolution.com/hiteksolution/* Novell and Microsoft certification training providers. (714)474-8270. [Exp. #156.]

HP's Interactive Broadband Program *http://www.hp.com/info/QuickBurst* This new Web site provides up-to-date information on Hewlett-Packard's Interactive Broadband Program. [Exp. #158.]

Infinitum *http://home.earthlink.net/~ifslaser* Printer, copier, fax toner cartridges, and misc. surplus. [Exp. #158.]

Integratron BBS *http://home.earthlink.net/~richnscott/* A free public online service. [Exp. #157.]

JDC's House Of CD-ROM *http://www.houseorom.com/houseorom/* We buy, sell, trade, and rent new and used CD-ROM, M-PEG titles and Playstation CDs. [Exp. #158.]

John Torres And Company, Inc. *http://www.accountingsoftware.com* The world's leading provider of Windows and NT-based SQL accounting information systems for middle-market businesses. [Exp. #158.]

LA Connection BBS *http://lacbbs.com* [Exp. #157.]

Maxis *http://www.maxis.com* Web site of the maker of the popular "Sim" games. [Exp. #156.]

Media Synergy *http://www.mediasyn.com* Software company specializing in graphic tools for the PC user. Anyone who visits the site can fill out a form and Media Synergy will donate 10 cents to The Hunger Project. [Exp. #156.]

Music Jukebox By Greendough *http://members.aol.com/greendough* Free music jukebox—real time—instant play. From classical to national anthem. [Exp. #156.]

NutriGenie *http://users.aol.com/nutrisoft/* Award-winning nutrition software publisher. Download software from Web site. [Exp. #158.]

OmniMedia Technologies, Inc. *http://www.omt.com* MPEG encoder/decoder hardware and software, as well as other multimedia technologies. [Exp. #157.]

One Stop Computer Source *http://www.silicone1.com* PC systems, memory, PCMCIA, and more. [Exp. #158.]

OnLive! Technologies *http://www.onlive.com* Developer of software that enables real-time virtual experiences between people in online environments. [Exp. #156.]

Pegasus Computer Solutions *http://www.palosverdes.com/pegasus* Computer company which provides the following services: HTML coding, desktop publishing, tutoring, transcription (medical and physical therapy), repairs & upgrades. [Exp. #156.]

Postalsoft, Inc. *http://www.postalsoft.com* Developer of multi-platform software for data integrity, postal automation, and document processing. [Exp. #156.]

continued on page 162

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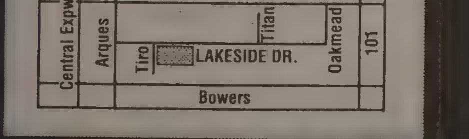

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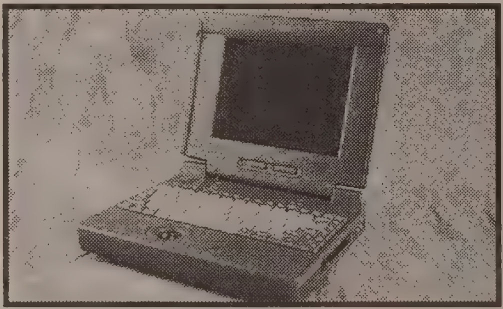

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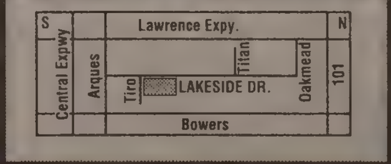

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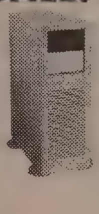

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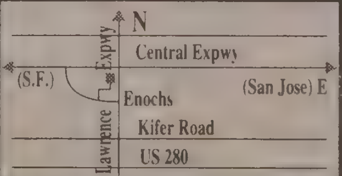

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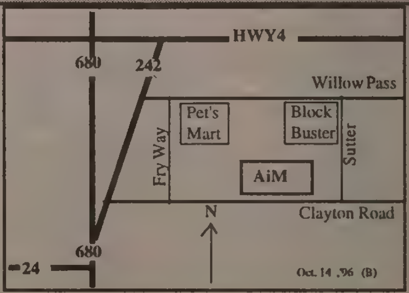

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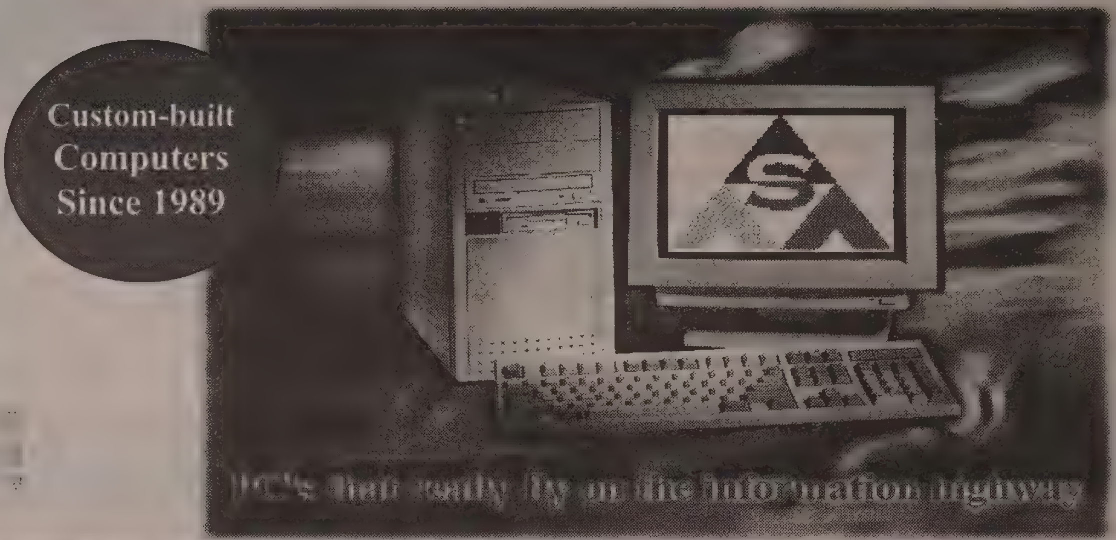
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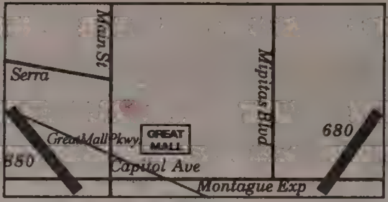

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Toshiba 8xl EIDE CD ROM
60W Speakers & Headphones
MS Compatible Mouse & Pad
MGC 15" NI (1280x1024, .28dp)

Pentium® 200	$1480
Pentium® 166	1260
Pentium® 150	1136
Penitum® 133	1072
Pentium® 120	1027
Pentium 100	1000

TRITON II POWER

Intel Advanced/ML "Marl" Motherboard
256K Pipelined Burst Cache
Intel CPU w/Heatsink & fan
16 MB EDO RAM 60NS
SPIDER Tarantula 3D w/4MB EDO RAM
PCI EIDE w/IO & 16550 UART
1.6 GB EIDE WD Hard Drive
1.44 TEAC FD
ATX Medium Tower Case
104 Mitsumi KB w/ WIN 95 Key
MGC 15" NI (1024x768, .28dp)
Creative Labs Vibra 16 SC
Toshiba 8xl EIDE CD ROM
60W Speakers w/Headphones
MS Compatible Mouse & Pad

Pentium® 200	$1758
Pentium® 166	1539
Pentium® 150	1414
Penitum® 133	1350
Pentium® 120	1306
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OR
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AMD 486 CPU
Heatsink & fan
4MB RAM
SPIDER 32 VLB 1MB DRAM
OR
SPIDER Lynx 64 PCI 1MBDRAM
IDE OR PCI EIDE w/IO
540 MB EIDE Hard Drive
1.44 TEAC FD
Mini Tower Case
104 Mitsumi KB w/ WIN 95 Key
MS Compatible Mouse & Pad
MGC 14" NI (1024x768, .28dp)

5x86-133AMD	566
DX4-100AMD	561

[illegible] WEBSYSTEM

Intel VS 440FX **Venus** Motherboard
Intel CPU w/256K cache & fan
16MB RAM (EDO 60ns)
Diamond Stealth 64 Video 2M VRAM
PCI EIDE w/IO & 16550 UART
2.5GB W.D. EIDE HD
1.44 TEAC FD
ATX Medium Tower Case
Focus 2001 Keyboard
Logitech PS2 Mouse+Pad
MGC 15" NI (1280x1024, .28dp)
Toshib 8xl Eide CD Rom
CL Soundblaster 32 PnP SC
180Watt Stereo Speakers
US Robotics 33.6 Faxmodem

Pentium® Pro 200 $1750

PRO NT SERVER

Intel **VS 440FX Venus** Motherboard
Intel CPU w/256K cache & fan
32MB RAM (EDO 60ns)
SPIDER Tarantula Lite S-3 Trio w/1MB DRAM
Adaptec **2940 U**ltra Wide SCSI
Quantum **Atlas 2.1GB Wide** SCSI (8MS, 7200RPM) HD
1.44 TEAC FD
ATX Medium Tower Case
104 Mitsumi KB w/ WIN 95 Key
MS Compatible Mouse & Pad
MGC 15" NI (1280x1024, .28dp)
Win **NT** 4.0 File Server Preloaded

Pentium® Pro 200 $2530

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Atlantis MB/256k+Pentium 200Mhz	$848
Atlantis MB/256k+Pentium 166Mhz	$626
Atlantis MB/256k+Pentium 150Mhz	$501
Atlantis MB/256k+Pentium 133Mhz	$435
Atlantis MB/256k+Pentium 120Mhz	$391
Atlantis MB/256K+Pentium 100Mhz	$367
Tucson MB/256k+Pentium 200Mhz	$804
Tucson MB/256k+Pentium 166Mhz	$583
Tucson MB/256k+Pentium 150Mhz	$457
Tucson MB/256k+Pentium 133Mhz	$392
Tucson MB/256k+Pentium 120Mhz	$347
Tucson MB/256k+Pentium 100Mhz	$324
Marl MB/256k + Pentium 200Mhz	$769
Marl MB/256k + Pentium 166Mhz	$548
Marl MB/256k+Pentium 150Mhz	$422
Marl MB/256k+Pentium 133Mhz	$355
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Marl MB/256k+Pentium 100Mhz	$279
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486DX4-100/256K PCI (AMD)	$97

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❖CREATIVE LABS	
SoundBlaster 16 Vibra OEM	75
SoundBlasterSB32Ret/oem	133/110
SoundBlaster AWE 32 Retail	220
❖TOSHIBA	
8xi EIDE	112
4xi SCSI	123
❖MITSUM	
8XI EIDE	111
12XI EIDE	189
❖Acer 10xi EIDE CD ROM	115
❖NEC 4xi SCSI / 8xi SCSI	85/205
❖NEC 6xi EIDE	88
❖NEC 4-disc. CD Changer	85
❖TEAC 6xi SCSI	159
❖CD Writer	
Panasonic(4x2)int/ext	475/605
HPC4324A(4x2)int	790

FAX MODEMS

❖SUPRA	
28.8 FaxmodemV.34w/Voice int.	105
33.6 Faxmodem V.34/Voice int	110
❖ZOLTRIX	
14.4 Faxmodem Int / Ext	39/78
14.4 Faxmodem w/voice	43
33.6 V.34 w/ Voice	96
❖US ROBOTICS Sportster	
33.6 V.34Int/ 33.6Ext.	142/160
33.6 Int w/voice &speaker phone/Ext	162/180
28.8 DSVD / 28.8 Win Int	174/129

MONITORS

❖NANAO	
EIZO FX-B5	492
F2-17 / F2-17EX	792/898
T2-17TS / T2-17	869/929
T2-20	1749
F2-21 / FX2-21	1732/2786
❖NEC	
C400 (14") / C500 (15")	286/373
XV15 Plus	441
XP17	1023
XV17 Plus	746
XE21 / XP 21	1665/1944
❖MAG	
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MXP 17F	697
DX15T / DX17T (.25DP)	358/630
MX21	1450
Princeton EO 15 / Ultra 17+	330/575
Princeton Ultra 20	1070
❖SONY	
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GDM 20SF2	1555
❖HITACHI	
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CM-1587 / CM1721	366/600
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15G/ 15ES	361/ 330
15GS/15GA	371/ 430
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NI 15" .28 Digital Control	280
NI 17" Monitor 0.28	530
NI 17" Monitor 0.26	540

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Logitech Mouseman serial	27
Logitech Mouseman Bus	36
Logitech Marble Trackman	70

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Tarantula 3-D 4MB EDO	120
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MGA Millenium PCI 2MB WR	180
MGA Millenium PCI 4MB WR	260
❖ATI	
ATI Mach 64 W inTurbo 2MB /4MB VRAM	165/245
ATI Mystiq ue w/2MB(Retail)	179
ATI Winboost 1MB DR	72
ATI Winboost 2MB DR	90
❖#9	
Imagine 128 4MB VR SER. 2	572
Imagine 128 8MB VRAM	1212

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DUAL Teac Floppy Drive	85

KEYBOARDS

Mitsumi 104-Win '95 Key	15
Maxiswitch w/Win '95 key	20
Keytronics w/ Win'95 key	23
Focus 2001/ 7000	26/45
Focus 8000/ 9000	35/45
Omnikey 101	75
Microsoft Natural OEM	68

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❖MAXTOR	
1.3 GB / 12ms (EIDE)	189
1.6 GB / 12ms (EIDE)	202
2.0 GB / 10ms (EIDE)	245
❖QUANTUM	
850 MB / 14ms (EIDE)	125
1.0GB / 10ms (SCSI)	168
1,2GB/11ms (EIDE)	195
1.7 GB / 11ms (EIDE)	220
3.2 GB / 11ms (EIDE)	325
❖WESTERN DIGITAL	
850 MB / 10ms (EIDE)	155
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1.6 GB / 10ms (EIDE)	223
2.1 GB / 10ms (EIDE)	275
2.5 GB/ 12ms (EIDE)	299
3.1GB/11ms(EIDE)	370
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540MB/14MS(EIDE)	129
1.2 GB/ 15ms (EIDE)	175
1.6 GB/12ms (EIDE)	
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2.5 GB / 10ms (EIDE)	297
4.0GB/ 8ms (ST15230N)	870

CONTROLLERS

IDE w/ IO	14
I/O w/ 1p,2s,1g	12
IDE VESA Local Bus	20
Enhanced IDE VLB w/16550	30
PCI IDE/PCI IDE w/16550	25/35
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Adap. SCSI 1542CFP OEM	165
Adap. PCI 2940 OEM w/Kit	175
Adap. PCI 2940UWw/Kit OEM	230
Adap. PCI 3940	280
Adap. PCI 3940W	330

CASES

Baby AT Case w/ 230W	43
Mini Tower case w/230W	38
Medium Tower case 230W	48
Full Tower case w/250W	60
ATX Case	89

SOFTWARE

MS Win NT 4.0 WS	170
MS Win NT 4.0 Server	480
Office Pro for Win 3.11	220
Office Pro for Win 95	190

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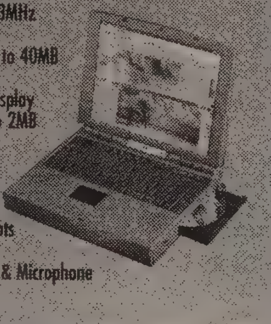
822 MultiMedia Notebook



Intel Pentium® 75/90/100/120/133MHz
 Processor Choices
8MB EDO RAM Standard, expandable to 40MB
256K L2 Cache
Active Color TFT or Dual Scan SVGA Display
1MB DRAM SVGA Card, expandable to 2MB
Removable Hard Drive
 (810MB/1.0/1.35/2.1GB Optional)
3.5" Floppy Drive
CD-ROM Optional
Two PCMCIA Type II or One type III Slots
Built-In Trackpad
16-Bit Stereo Sound, Stereo Speakers, & Microphone
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Plus Much More

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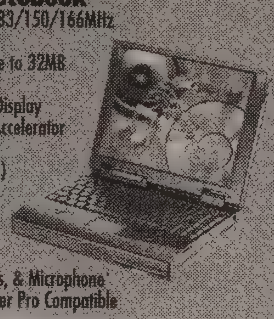
TFT	CALL	CALL	CALL
DUAL SCAN	CALL	CALL	CALL

5400P MultiMedia Notebook



Intel Pentium® 75/90/100/120/133/150/166MHz
 Processor Choices
8MB EDO RAM Standard, expandable to 32MB
256K L2 Cache
Active Color TFT or Dual Scan SVGA Display
2MB DRAM SVGA Card w/Windows Accelerator
Removable Hard Drive
 (810MB/1.0/1.35/2.1GB Optional)
Removable 3.5" Floppy Drive
Supports PCMCIA Type III Slots
Built-In Trackpad
Built-In Joystick
16-Bit Stereo Sound, Stereo Speakers, & Microphone
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Plus Much More

	100MHz	120MHz	133MHz
TFT	CALL	CALL	CALL
DUAL SCAN	CALL	CALL	CALL

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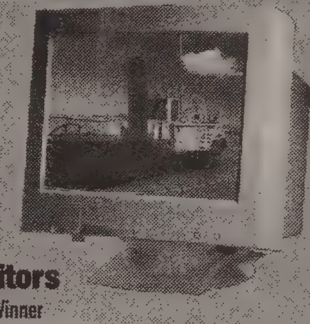

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IDE 1.2GB Western Digital/Seagate	$189
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Mini Tower 230 Watt	$35
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230 Watt Power Supply	$25

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4MB 72pin 1x32-60ns		$25
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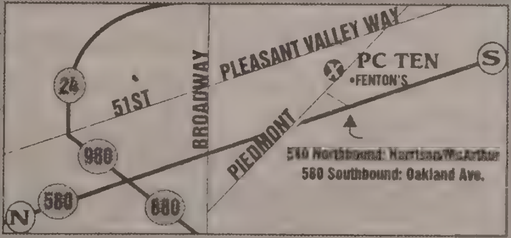

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- ✓Toshiba 8X CD ROM
- ✓S.Blaster 16/120W SPK
- ✓104 Keys/Logitech Mouse
- ✓US Robotics 33.6 Fax
- ✓Modem w/ Voice

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PERFORMANCE 1

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- ✓Asus Triton Mb 256K
- ✓With IDE/IO/26/1P/1G
- ✓Full Tower Case/1.44FDD
- ✓16MB EDO RAM 60NS
- ✓2.1GB IDE Seagate HD
- ✓Diamond 2MB VRAM SVGA
- ✓17" MAG .26NI
- ✓Toshiba 8X CD ROM
- ✓S.Blaster 16/120W SPK
- ✓104 Keys/Logitech Mouse
- ✓33.6 KBS Fax/Modem

P120	**$1898**
P133	**$1978**
P150	**$2058**
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PERFORMANCE 2

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- ✓Intel Endeavor Mb 256K
- ✓With IDE/IO/26/1P/1G
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- ✓16MB EDO RAM 60NS
- ✓1.6 Seagate HD
- ✓Diamond 2MB DRAM SVGA
- ✓17" Touch Monitor .28 NI
- ✓NEC 6X CD ROM
- ✓S.Blaster 16/120W SPK
- ✓104 Keys/Logitech Mouse
- ✓33.6 KBS Fax/Modem

P100	**$1598**
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PERFORMANCE 3

- ✓Pentium P75-200
- ✓Intel Triton Chipset Mb
- ✓256K IDE/IO/26/1P/1G
- ✓Mid Tower Case/1.44FDD
- ✓8MB EDO RAM 60NS
- ✓1.2GB Seagate HD
- ✓Diamond 1MB DRAM SVGA
- ✓15" Monitor .28 NI
- ✓NEC 4X CD ROM
- ✓S.Blaster 16/60W SPK
- ✓104 Keys/Logitech Mouse
- ✓14.4 KBS Fax/Modem

P75	**$1058**
P100	**$1098**
P120	**$1118**
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PERFORMANCE 4

- ✓Pentium P75-200
- ✓Intel Trition Chipset Mb
- ✓256K IDE/IO/26/1P/1G
- ✓Mid Tower Case/1.44FD
- ✓8MB EDO RAM
- ✓850MB WD/10ms/HD
- ✓TRIDENT 1MB/DRAM
- ✓14" Monitor .28NI
- ✓NEC 4X CD ROM
- ✓S.Blaster 16/SPK
- ✓104 Keys/Logitech
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- PCMCIA Slots (2 Type II or 1 Type III)
- Built-in Glide Point (PS/2); Built-in Joystick
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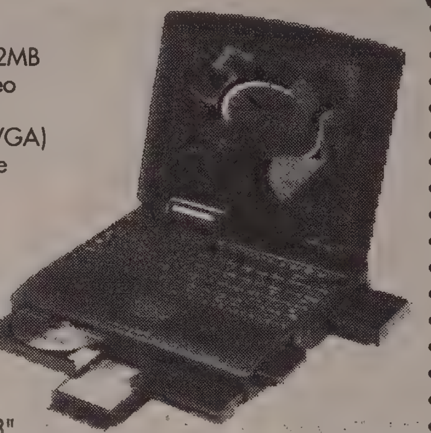
- Internal 4X CD-ROM Drive
- Infrared File Transfer Capability
- Ports for High Speed Serial, EPP, External CRT, Docking Station and MIDI
- Weight 7.7 lbs. (with Battery); 10.8" x 8.94" x 2.13"



GREAT VALUE	Dual Scan	Active Matrix
Pentium® 75MHz	$1898	$2068
Pentium® 100MHz	$1948	$2108
Pentium® 120MHz	$1968	$2128
Pentium® 133MHz	$2038	$2198
Pentium® 150MHz	$2108	$2268

Chembook 5580

- Intel Pentium® 75/90/100/120/133MHz
- 11.3" Dual Scan / 10.4" TFT SVGA (Option: 12.1" TFT SVGA)
- 2MB EDO Video RAM, 8MB RAM, Exp. to 16/32/MB
- 128KB System Flash ROM, Plug & Play BIOS Support
- PCI Local Bus / Enhanced IDE
- 64-Bit Expandable Memory up to 32MB w/ EDO Support
- Pipeline Burst Mode 256KB L2 Cache Memory
- Removable 6X CD-ROM
- 16-Bit Sound Blaster Pro Compatible Stereo Sound System
- 1x Type III and 1x Type II PCMCIA Slot
- Built-in Touch Pad
- Removable Floppy & Hard Drive
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- Support High Performance Software-MPEG
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- Weight 7.7 lbs. (with Battery)

GREAT VALUE	Dual Scan	Active Matrix
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Pentium® 100MHz	$1988	$2208
Pentium® 120MHz	$2008	$2238
Pentium® 133MHz	$2088	$2308
Pentium® 150MHz	$2158	$2388

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- ✓16-Bit Stereo Sound System
- ✓2 Speakers and Microphone
- ✓TouchPad Pointing Device
- ✓Optional:
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- ✓Full Size Docking Station

MHz	75	100	120	133
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Active Color	$2108	$2148	$2198	$2348

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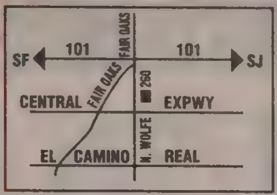

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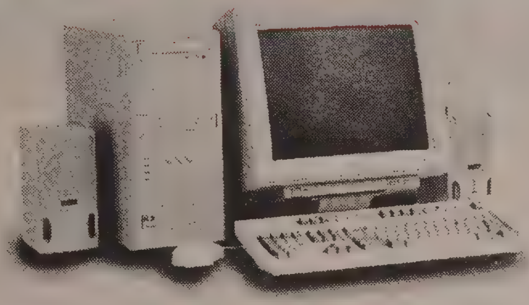
VENUS PENTIUM® PRO 200 MHz SERIES

- Intel Venus Pentium® Pro Motherboard
- Intel Pentium® Pro 200 MHz Processor
- 32 MB Extended Data Out (EDO) Memory
- 2.5 GB Mode 4 Enhanced IDE Hard Drive
- Matrox Millenium 2MB WRAM PCI Video Card with MPEG
- Toshiba 8X Enhanced IDE CD-ROM
- Sound Blaster 16 Plug & Play
- Supra 33.6 Plug & Play with Voice Mail V.34 Modem
- Teac 1.44 MB Floppy Drive
- 120 Watt Power Amplified Speakers
- Keytronics 104 Win 95 PS/2 Keyboard
- Microsoft Ergonomic PS/2 Mouse
- Microsoft Windows NT 4.0 on CD
- ATX Middle Tower Case with Power Supply
- ViewSonic 17PS 17″ SVGA Monitor



$3495

Call For Other Pentium® Pro Custom Configured Systems To Meet Your Needs

PENTIUM® 133 MULTIMEDIA BUSINESS SERIES

- Intel i430VX Chip Set PCI Motherboard
- Intel Pentium® 133 MHz Processor
- 16 MB Extended Data Out (EDO) Memory
- 2.0GB Mode 4 Enhanced IDE Hard Drive
- PCI Diamond Stealth 64 w/2 MB Video Card
- Toshiba 8X Enhanced IDE CD-ROM
- Sound Blaster 16 Plug & Play Sound Card
- Supra 33.6 Plug & Play with Voice Mail V.34 Modem
- Teac 1.44 MB Floppy Drive
- 120 Watt Power Amplified Speakers
- Keytronics 104 Win 95 Keyboard
- Microsoft Ergonomic Mouse
- Microsoft Windows 95 on CD
- Super Middle Tower Case with Power Supply
- Viewsonic 15″ SVGA Monitor 1280x1024 NI 0.28 dpi

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Call For Other Pentium® Pro Custom Configured Systems To Meet Your Needs

PENTIUM® MULTIMEDIA NOTEBOOK

- Intel SL Enhanced Processor
- 256K Cache
- 16 MB RAM Expandable to 32 MB
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- 1 GB IDE Hard Drive (1.3 GB/810 Available)
- 32 Bit VLB SVGA 1024x768 w/1 MB RAM
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- Dual Scan or Active Matrix
- 86 Keys w/Inverted T Cursor
- Touch Pad
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	11.3" DUAL SCAN	11.3" ACTIVE MATRIX
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PENTIUM® 133 MHz	$2500	$2850

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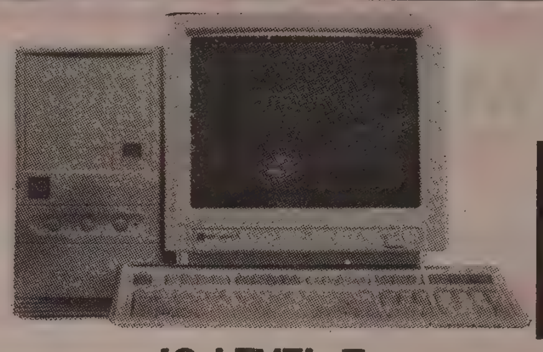

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IQ LEVEL-5 DUAL
LINUX & WIN95

- Intel PENTIUM™ 200Mhz Processor
- Intel Endeavor Mainboard (430FX Chipset)
- 256K Pipeline Burst Cache, 32Mb EDO RAM
- 1.44Mb Floppy Drive
- 3.2Gb EIDE Hard Drive
- Built-In EIDE & Hi-Speed I/O; 2-S, 1-P, 1-G
- Mid Tower Case, 230 Watts P.S.
- SONY 15SX (15" 1280x1024 NI 0.25dpi)
- Diamond Stealth 64 2Mb Video DRAM
- Toshiba 8X EIDE CD-ROM Drive
- Logitech MouseMan & Mouse Pad
- Built-In Creative Labs Vibra 16
- Keytronic Windows 95 Keyboard
- PMPO: 80 Watts Speakers
- CD: Linux & Microsoft Window 95

Special Buy

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- Linux is the UNIX operating system capable of running PC along w/MS-DOS & Windows.
- Built-in communication & networking TCP/IP, UUCP, NFS, Telenet, FTP, E-Mail, Slip,PPP.
- Graphical Interface/Tool: X11,XView, Tel, TK, Motiff.
- GNU development system: SmallTalk, Liop, Prolog, Ada, GNU C/C++ Complier, Assembler and Debugger for 8800, 80386, 6800, Sparc, & RS/600.
- Interpreters: Pascal to C, Fortron to C, Simula to C, APL & Rexx.
- Full UNIX Utilities and thousands of free applications from the internet around the world.

IQ LEVEL-5 MARL
PROFESSIONAL

- Intel PENTIUM™ 120Mhz Processor
- Intel Marl Mainboard (430HX Chipset)
- 256K Pipeline Burst Cache
- 32Mb EDO RAM 60ns
- 1.44Mb Floppy Drive
- 3.2Gb EIDE Hard Drive
- Built-In EIDE & Hi-Speed I/O; 2-S, 1-P
- ATX Mid Tower Case, 235 Watts P.S.
- Sony 17SF2 (17" 1280x1024 0.25dpi)
- ATI Mach64 2Mb Video DRAM
- Toshiba 8X EIDE CD-ROM Drive
- Sound Blaster 32 PnP (Full Duplex, Wavetable)
- Logitech MouseMan & Mouse Pad
- Keytronic Windows 95 Keyboard
- PMPO: 120 Watts Speakers
- CD: Microsoft Windows 95

Performance Buy

$2235

Pentium™133....$2280
Pentium™150...$2355
Pentium™166...$2485
Pentium™200...$2705

IQ LEVEL-5
OFFICE

- Intel PENTIUM™ 120Mhz Processor
- Intel Tucson Mainboard (430HX Chipset)
- 256K Pipeline Burst Cache
- 32Mb EDO RAM 60ns
- 1.44Mb Floppy Drive
- 1.7Gb EIDE Hard Drive
- Built-In EIDE & Hi-Speed I/O; 2-S, 1-P
- ATX Mid Tower Case, 230 Watts P.S.
- NEC M700 (17" 1280x1280 0.25dpi)
- ATI Mach 64 2Mb Video DRAM
- 8X EIDE CD-ROM Drive
- Logitech MouseMan & Mouse Pad
- Built-In Sound Card
- Keytronic Windows 95 Keyboard
- Built-In Speakers (NEC M700 Monitor)
- CD: Microsoft Windows 95

Value Buy

$2000

Pentium™133....$2045
Pentium™150....$2120
Pentium™166...$2250
Pentium™200...$2470

IQ LEVEL-5
WORKSTATION

- Intel PENTIUM™ 100Mhz Processor
- Intel Atlantis Mainboard (430FX Chipset)
- 256K Pipeline Burst Cache
- 16Mb EDO RAM 60ns
- 1.44Mb Floppy Drive
- 1.2Gb EIDE Hard Drive
- Built-In EIDE & Hi-Speed I/O; 2-S, 1-P
- Mid Tower Case, 230 Watts P.S.
- 15" Monitor 1024x768 NI 0.28dpi
- Built-In ATI Mach64 1Mb Video DRAM
- 8X EIDE CD-ROM Drive
- Logitech MouseMan & Mouse Pad
- Keytronic Windows 95 Keyboard
- CD: Microsoft Windows 95

Best Buy

$1280

Pentium™120...$1310
Pentium™133...$1355
Pentium™150...$1430
Pentium™166...$1560
Pentium™200...$1780

IQ LEVEL-5 ADAPTEC
TURBO SCSI

- Intel PENTIUM™ 120Mhz Processor
- Intel 430HX Chipset Mainboard (JBA2)
- 512K Pipeline Burst Cache, 32Mb EDO RAM
- 1.44Mb Floppy Drive
- 2.0Gb Ultra Wide SCSI Hard Drive
- Built-In Adaptec 2940 Ultra Wide SCSI
- Built-In EIDE & Hi-Speed I/O; 2-S, 1-P
- Mid Tower Case, 230 Watts P.S.
- NEC M700 (17" Monitor 1280x1024 0.25dpi)
- ATI Mach 64 2Mb Video VRAM
- 4X SCSI-II CD-ROM Drive
- Creative Labs 16 PnP
- Logitech MouseMan & Mouse Pad
- Keytronic Windows 95 Keyboard
- Built-In Speakers (NEC M700 Monitor)
- CD: Microsoft Window 95
- External SCSI-II Kit

Performance Buy

$2395

Pentium™133....$2440
Pentium™150....$2515
Pentium™166....$2645
Pentium™200....$2865

IQ LEVEL-5 ADAPTEC
PRO SCSI

- Intel PENTIUM™ 120Mhz Processor
- Intel 430VX Chipset Mainboard (JBAv)
- 512K Pipeline Burst Cache, 16Mb EDO RAM
- 1.44Mb Floppy Drive
- 2.0Gb SCSI-II Hard Drive
- Built-In Adaptec 2940 Ultra Controller
- Built-In EIDE & Hi-Speed I/O; 2-S, 1-P
- Mid Tower Case, 230 Watts P.S.
- Princeton Graphic Ultra 17 Plus (17" Monitor 1600x1280 NI 0.28dpi)
- ATI Mach 64 2Mb Video DRAM
- 4X SCSI-II CD-ROM Drive
- Creative Labs 16 PnP
- Logitech MouseMan & Mouse Pad
- Keytronic Windows 95 Keyboard
- PMPO: 80 Watts Speakers
- CD: Microsoft Window 95
- External SCSI-II Kit

Super Value

$1880

Pentium™133...$1925
Pentium™150....$2000
Pentium™166....$2130
Pentium™200....$2350

IQ LEVEL-5 CYRIX/IBM
DELUXE SCSI

- CYRIX/IBM 6x86 P150+ Processor
- Intel 430VX Chipset (ASUS TVP4)
- 512K Pipeline Burst Cache
- 16Mb EDO RAM 60ns
- 1.44Mb Floppy Drive
- 2.0Gb SCSI-II Hard Drive
- WD PCI Fast SCSI-II Controller
- Built-In EIDE & Hi-Speed I/O; 2-S, 1-P
- MID Tower Case, 230 Watts P.S.
- Sony 15SX (15" Monitor 1280x1024 0.25dpi)
- Diamond Edge 3D 2Mb Video DRAM (Built-In 3D Multimedia Sound & Game)
- 4X SCSI-II CD-ROM Drive
- Logitech MouseMan & Mouse Pad
- Keytronic Windows 95 Keyboard
- PMPO: 80 Watts Speakers
- CD: Microsoft Windows 95

Best Buy

$1650

Cyrix/IBM P166+..$1710
Cyrix/IBM P180+....Call
Cyrix/IBM P200+....Call

IQ LEVEL-5 CYRIX/IBM
HOME

- CYRIX/IBM 6x86 P150+ Processor
- Intel 430VX Chipset (ASUS TVP4)
- 256K Pipeline Burst Cache
- 16Mb EDO RAM 60ns
- 1.44Mb Floppy Drive
- 1.7Gb Enhanced IDE Hard Drive
- Built-In EIDE & Hi-Speed I/O; 2-S, 1-P
- MID Tower Case, 230 Watts P.S.
- 15" Monitor 1280x1024 0.28dpi
- Diamond Edge 3D 2Mb Video DRAM (Built-In 3D Multimedia Sound & Game)
- 8X EIDE CD-ROM Drive
- Logitech MouseMan & Mouse Pad
- Keytronic Windows 95 Keyboard
- PMPO: 80 Watts Speakers
- CD: Microsoft Windows 95

$1370

Cyrix/IBM P166+..$1430
Cyrix/IBM P180+....Call
Cyrix/IBM P200+....Call

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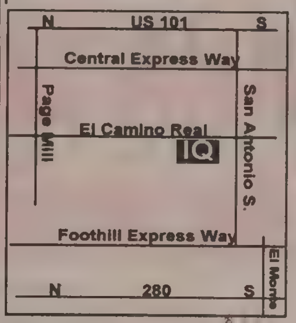
SONY	SONY	Nanao	Viewsonic
17-SE2	17-SF2	T2-17Ts	17PS
1600x1280	1280x1024	1600x1280	1600x1280
0.25dpi	0.25dpi	0.25dpi	0.25dpi
$980	$755	$935	$725



IQ
INFOQUEST
COMPUTER

IQ LEVEL-5 MARL
POWER SCSI

- Intel PENTIUM™ 150Mhz Processor
- Intel MARL Mainboard (430HX Chipset)
- 256K Pipeline Burst Cache, 32Mb EDO RAM
- 1.44Mb Floppy Drive
- 2.0Gb Ultra Wide SCSI Hard Drive
- Adaptec 2940 Ultra Wide SCSI Controller
- Built-In EIDE & Hi-Speed I/O; 2-S, 1-P
- ATX Mid Tower Case, 235 Watts P.S
- Sony 17SF2 17" (1280x1024 NI 0.25dpi)
- Matrox Millennium PCI 64 2Mb WRAM
- Teac 6X SCSI-II CD-ROM Drive
- Logitech MouseMan & Mouse Pad
- Creative Labs 32 PnP (Full Duplex, Wavetable)
- Keytronic Win95 Keyboard
- PMPO: 120 Watts Speakers
- CD: Microsoft Window 95

$2765

Pentium™166....$2895
Pentium™200....$3115

IQ LEVEL-6 VENUS
V.I.P

- Intel PENTIUM™ PRO 200Mhz Processor
- Intel VENUS Mainboard (Natoma™ Chipset)
- 32Mb EDO RAM 60ns
- 1.44Mb Floppy Drive
- 1.7Gb EIDE Hard Drive
- Built-In EIDE & Hi-Speed I/O; 2-S, 1-P
- ATX Mid Tower Case, 235 Watts PS
- NEC M700 (17" 1280x1024 0.25dpi)
- ATI Mach64 2Mb Video DRAM
- 8X EIDE CD-ROM Drive
- Logitech MouseMan & Mouse Pad
- Built-In Sound Card
- Keytronic Win95 Keyboard
- Built-In Speakers (NEC M700 Monitor)
- CD: Microsoft Window 95

Best Buy

$2735

IQ LEVEL-6 VENUS
EXECUTIVE

- Intel PENTIUM™ PRO 200Mhz Processor
- Intel VENUS Mainboard (Natoma™ Chipset)
- 64Mb EDO RAM 60ns
- 1.44Mb Floppy Drive
- 3.2Gb EIDE Hard Drive
- Built-In EIDE & Hi-Speed I/O; 2-S, 1-P
- ATX2 Mid Tower Case, 235 Watts PS
- Viewsonic 17PS (17" 1600x1280 0.25dpi)
- Matrox Millennium PCI 64 4Mb WRAM
- Mitsumi 12X EIDE CD-ROM Drive
- Logitech MouseMan & Mouse Pad
- Creative Labs 32 PnP (Full Duplex, Wavetable)
- Microsoft Natural Keyboard
- PMPO: 120 Watts Speakers
- CD: Microsoft Window 95

Value Buy

$3515

IQ LEVEL-6 VENUS
SUPER SCSI

- Intel PENTIUM™ PRO 200Mhz Processor
- Intel VENUS Mainboard (Natoma™ Chipset)
- 64Mb EDO RAM 60ns
- 1.44Mb Floppy Drive
- 4.0Gb Wide SCSI Hard Drive
- Adaptec 2940 Ultra Wide SCSI Controller
- Built-In EIDE & Hi-Speed I/O; 2-S, 1-P
- ATX Full Tower Case, 235 Watts PS
- Nanao T2-17TS (17" 1600x1280 0.25dpi)
- Matrox Millennium PCI 64 4Mb WRAM
- NEC 8X SCSI-II CD-ROM Drive
- Logitech MouseMan & Mouse Pad
- Creative Labs 32 PnP (Full Duplex, Wavetable)
- Microsoft Natural Keyboard
- PMPO: 120 Watts Speakers
- CD: Microsoft Window 95

Performance Buy

$4315

SOUND CARD

Creative Lab SB16 PnP	$70
Creative Lab SB32 PnP	$129
Creative Lab SB AWE32 PnP	$235

CD-ROM DRIVES

Acer *(8X-EIDE)*	
1200KB/sec	$90
TOSHIBA *(8X-EIDE)*	
1200KB/sec	$110
MITSUMI *(12X-EIDE)*	
1800KB/sec	$Call
NEC *(4X-SCSI)*	
600KB/sec	$79
Teac *(6X-SCSI)*	
900KB/sec	$160

CONTROLLER

Adaptec SCSI	
2940 PCI Ultra SCSI	$175
2940 PCI Ultra Wide SCSI	$235
2940 PCI Ultra Wide (Retail)	$265
Others	
WD PCI SCSI	$59
NCR 810 PCI SCSI	$55

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28.8 Fax Modem (int)	$99
Supra 33.6 Express Voice (int)	$115
USRobitics 33.6 (Int)	$140
USRobitics 33.6 Vi (int)	$165

MONITORS

IIYAMA (IDEK)	
8617e 17" 1600x1280 0.26	$699
MAG	
DX1595 15" 1280x1024 0.28	$365
DX1795 17" 1280x1024 0.28	$599
NANAO	
F2-17 17" 1280x1024 0.26	$820
T2-17TS 17" 1600x1280 0.25	$935
T2-17 17" 1600x1280 0.25	$965
NEC	
XV15+ 15" 1280x1024 0.28	$465
XV17+ 17" 1280x1024 0.28	$785
XP17 17" 1280x1024 0.28	$1055
NOKIA	
447x 17" 1600x1280 0.25	$915
SONY	
15SX 15" 1280x1024 0.25	$395
17Sf2 17" 1280x1024 0.25	$755
17Se2 17" 1600x1280 0.25	$980
20Sf217" 1600x1280 0.30	Call
20Se217" 1600x1280 0.30	Call
VIEWSONIC	
17PS 17" 1600x1280 0.25	$725
PT770 17" 1600x1280 0.25	Call
21PS 21" 1600x1280 0.25	Call
PT810 21" 1600x1280 0.25	$1665

VIDEO CARDS

PCI	
ATI WinBoost 2Mb DRAM	$89
ATI WinTurbo 2Mb VRAM	$185
ATI WinTurbo 4MbVRAM	Call
DiamondStealth64 2MbVRAM	Call
DiamondStealth64 4MbVRAM	$240
DiamondStealth 3D 2000 2Mb	$120
Diamond Edge 3D 2Mb DRAM	Call
MGA Millenium 2MbWRAM	$185
MGA Millenium 4MbWRAM	$250
MGA Mystique 2MbSGRAM	Call
MGA Mystique 4Mb SGRAM	Call
No#9 FX 771 2Mb VRAM	Call
No#9Imagine128 4MbVRAM	Call

NETWORK CARD

3COM	
3COM 3C509B T/P	$70
3COM 3C509B Combo	$90
3COM 3C900 PCI T/P	$95
3COM 3C900 PCI Combo	$130
3COM 3C905 PCI 10/100 T/P	$120
Intel	
EtherExpress Pro T/P	$70
SMC	
EtherEZ ISA T/P	$70
EtherEZ ISA Combo	$85
EtherPower PCI 10/100 T/P	$130

TAPE BACKUP

HP & Colorado	
DJ-50 1.4Gb (i)	$175
T-1000 400~800Mb (i)	$140
T-4000S 2~4Gb SCSI(i)	$375
C1534a 2Gb 4mm SCSI(i)	$580
C1536a 2~4Gb 4mm SCSI(i)	$680
C1533a 4~8Gb 4mm SCSI(i)	$880
C1533 Mounting Kit for 5.25	$30
C1534 Mounting Kit for 5.25	$25
C1536 Mounting Kit for 5.25	$25
IOMEGA	
Zip Drive 100Mb SCSI (i)	$175
Jaz Drive 1.0Gb SCSI (i)	$370
Jaz Drive 1.0Gb SCSI (e)	$470
Seagate & Conner	
Travan 400Mb/800Mb(i)	$135
TapeStor 4000 2~4Gb SCSI (i)	$299
TapeStor 8000 4~8Gb SCSI (i)	$370
4324RP 2~4Gb 4mm SCSI(i)	$660
Syquest	
EZ-135Mb SCSI (e)	$135
EZ-Flyer 230Mb SCSI (e)	$310
EZ-Jet 1.3Gb SCSI (e)	Call

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INTEL VENUS M/B
Intel Natoma Chipset

- ⇨ Intel Natoma Chipset
- ⇨ Support CPU: Pro150~Pro200MHz
- ⇨ AMI Flash BIOS (Plug & Play)
- ⇨ Support EDO & Fast Page Memory
- ⇨ Max Memory = 256MB
- ⇨ 4-PCI & 4-ISA Bus
- ⇨ Built-In EIDE & Hi-Speed I/O
- ⇨ 2-Serials, 1-Parallel, 1-PS2
- ⇨ ATX Mainboard

$295

MOTHERBOARD
New Pentium Series
INTEL MARL M/B
Intel Triton II Chipset

- ⇨ Triton Chipset (430HX)
- ⇨ Support CPU: P75~P200MHz
- ⇨ 256K Pipeline Burst Cache
- ⇨ AMI Flash BIOS (Plug & Play)
- ⇨ Socket 7; 4-PCI & 3-ISA Bus
- ⇨ Built-In EIDE & Hi-Speed I/O
- ⇨ 2-Serials, 1-Parallel, 1-PS2
- ⇨ ATX Mainboard

$175

OTHERBOARD
LIGHTNING (TU/TUS) M/B
Intel Triton-II Chipset
Adaptec 2940 Ultra Wide

- ⇨ New Triton-II Chipset (430HX)
- ⇨ Support: P75~P200MHz
- ⇨ 512K Pipeline Burst Cache
- ⇨ Award Flash BIOS (Plug & Play)
- ⇨ Socket 7; 3-PCI & 5-ISA Bus
- ⇨ Built-In Adaptec 2940 Ultra Wide
- ⇨ Built-In EIDE & Hi-Speed I/O
- ⇨ 2-Serials, 1-Parallel, 1-PS/2
- ⇨ Musical Alarm CPU Cooling Fan
- ⇨ Adaptec EZ-SCSI Lite 4.0

$375

P55TUS ⇨ Built-In Creative Vibra 16..Call
DP55TUS ⇨ Dual Pentium M/B ....Call

MOTHERBOARD
LIGHTNING (TV/TVS) M/B
Intel Triton-II Chipset
Adaptec 2940 Ultra

- ⇨ New Triton-II Chipset (430VX)
- ⇨ Supports: P75~P200MHz
- ⇨ 512K Pipeline Burst Cache
- ⇨ Award Flash BIOS (Plug & Play)
- ⇨ Support Universal Serial Bus
- ⇨ Socket 7; 3-PCI & 5-ISA Bus
- ⇨ Built-In Adaptec 2940 Ultra
- ⇨ Built-In EIDE & Hi-Speed I/O
- ⇨ 2-Serials, 1-Parallel, 1-PS/2
- ⇨ Musical Alarm CPU Cooling Fan
- ⇨ Adaptec EZ-SCSI Lite 4.0

$275

P55TVS ⇨ Built-In Creative Vibra 16

MOTHERBOARD
JBA2 M/B
Intel Triton-II Chipset
Built-In Adaptec 2940UW

- ⇨ New Triton-II Chipset (430HX)
- ⇨ Support: P75~P200MHz
- ⇨ 512K Pipeline Burst Cache
- ⇨ Award Flash BIOS (Plug & Play)
- ⇨ Support Universal Serial Bus
- ⇨ Socket 7; 4-PCI & 4-ISA Bus
- ⇨ Built-In Adaptec 2940 Ultra Wide
- ⇨ Built-In EIDE & Hi-Speed I/O
- ⇨ 2-Serials, 1-Parallel, 1-Game
- ⇨ Corel SCSI Lite Software
- ⇨ Adaptec EZ-SCSI Lite 4.0

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NCA Computer Products - Sunnyvale

- **FAST Electronic USA Inc. will be demonstrating AV Master**
- **Meet the editor of MICROTIMES, Mary Eisenhart**

OCTOBER 25TH

NCA Computer Products - Berkeley

- **YAMAHA will be demonstrating the best choice in Recordable CD-ROM Kits.**
- **Meet the editor of MICROTIMES, Mary Eisenhart**

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NCA **Computer Products**

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BERKELEY
2480 Shattuck Ave.
510.249.0850

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Web Page Listings *continued from page 146*

Pragmatic Communications *http://wireless-experts.com* An innovator in wireless communications for voice, data, and video applications. [Exp. #158.]

The Printer Connection *http://www.users.deltanet.com/~puzant* [Exp. #157.]

Software Age *http://www.softwareage.com* A new electronic information source for software users and the software industry. [Exp. #158.]

Software Outlet *http://www.softwareoutlet.com* A mail order company specializing in low-cost software. Call 1-800-230-SOFT for a free catalog. [Exp. #156.]

Stick-ups Pop-up Note Software *http://www.stick-ups.com* Download a free copy of the quickest and easiest way to jot down and keep track of important information. [Exp. #158.]

Sun Microsystems *http://www.sun.com* [Exp. #156.]

Today Computers *http://www.todaypc.com* We provide custom configuration for PCs, Network for Novell, Windows NT, and Windows 95 (WFW). Also on-site and walk-in repair. [Exp. #158.]

Unicom *http://www.via.net/~unicom* New PCs and Web pages for sale. [Exp. #158.]

Vision X Software *http://www.visionx.com* Ad-supported site at which six of Vision X's DigiDay software titles, previously available only commercially, are available for free. [Exp. #156.]

Vivid Details *http://www.vividdetails.com* High-quality, royalty-free photographs . [Exp. #158.]

WEB/INTERNET SERVICES

Accesspoint Internet Service *http://www.apc.net* Offering affordable dial-up accounts, Web page design, Web site hosting, and business automation services. [Exp. #158.]

Aden Mall *http://www.aden.com* Internet shopping and advertising service at low cost. Free online lessons: learn to speak Chinese. [Exp. #158.]

Advanced Business Technical Network *http://abtn.com/vsad/pata.htm* Virtual server accounts, autoresponders, and 25MB of storage for $29 per month. Also, Web page design available. [Exp. #156.]

Apple Pi Web Designs *http://mpb.com/saleswom/* Providing high-quality Web designs with a personal touch. [Exp. #158.]

Axis Internet Services *http://www.themall.net/~diamond2/axis.htm* Web page publishing for the individual and business. [Exp. #157.]

Bayshore Information Services *http://adpages.com/bayinfo* How to promote your business, products, or service on the Internet. Free software. [Exp. #158.]

Bytelines *http://www.hooked.net/users/nailbndr* Specializing in creating, designing, editing, layout, and installation of Web sites—big and small. [Exp. #158.]

Carpe Diem Communications *http://www.webon.com* Providing outstanding Web site design, programming, hosting, and maintenance at competitive rates. [Exp. #158.]

CDsmedia *http://cdsmedia.com* Full service presence provider with in-house graphics department for "a cut above." [Exp. #158.]

ComCity *http://www.comcity.com* One of the first Bay Area ISPs providing one-click access via Microsoft Frontpage. Start running your own Web site today. [Exp. #157.]

CreaTech *http://www.concentric.net/~createch* Exceptional yet reasonable Web page design, implementation, and maintenance. [Exp. #158.]

Creative Web Solutions International *http://www.cwsi.com* Full service Web site and Internet commerce consulting firm. [Exp. #158.]

Cuesta Systems *http://www.cuesta.com* Cuesta Systems is a developer of online catalogs—fully searchable, secure online ordering, and simple to update. [Exp. #158.]

E.C.N. *http://www.ecn.com* Full Internet access, free Web pages, chat games, and more. Free trial. [Exp. #156.]

Expose *http://www.dev-com.com/~cmg/expose1.htm* Resource for making your presence known on the Internet. Over 450 links to submission pages for free listings in directories, yellow pages, award sites, and classifieds. [Exp. #156.]

ForeverMail *http://forevermail.com* Get a personalized email address and keep it no matter how often you change ISPs. [Exp. #158.]

Graphics Frontier Web Site Development *http://www.gfrontier.com* Web site development using graphics professionals. Services include hosting, Java, and Internet marketing. [Exp. #158.]

HomeCom Communications *http://vista.homecom.com* Vista's CityCam offers a westward view of downtown Atlanta, overlooking the Olympic Village. Download pictures right to your own computer. [Exp. #156.]

Human Dimensions *http://www.humandimensions.com* Find out about creating a quality Web presence for you business. [Exp. #158.]

Imagine-Net Internet Services *http://www.imagine-net.com* Internet and intranet specialists offering Web hosting, Intranet development, and Internet access. [Exp. #158.]

InteresE Corp. *http://www.interse.com/* Premier Web analysis software for in-depth data to evaluate your return on your Internet investment. [Exp. #158.]

Jerry Wang's Web Design *http://www.csun.edu/~hbcsc274* Custom Web pages designed for your business. [Exp. #158.]

Joe's CyberPost *http://www.joes.com/* Publish your own free "instant home page" in minutes. [Exp. #158.]

Kepnet *http://www.kepnet.com/* Kepnet is a low-cost, full-service ISP serving San Jose, Palo Alto, and Fremont areas. [Exp. #158.]

continued on page 185

WE DIDN'T GET TO WHERE WE ARE BY PUSHING BOXES...

Our personal commitment to our corporate customers:

We've tailored our Corporate Sales Department to meet the very demanding needs of buyers and professionals of Corporate America. How you look depends on how well the suppliers you've chosen perform. We offer you a clear choice over the competition:
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- •Direct swap of RMAs with Express advantage™ on most items within the warranty period.
- •Our R&D facility is designed to produce the highest quality systems and subsystems, one or one thousand.
- •Personal service tailored to each corporate account by your own inside customer service representative.

FOR THE PRICE:

- •We offer the most competitive prices in the industry.
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- •Special discount on most items reserved only to open accounts.
- •For our corporate customers, we offer special programs that allow discounts to their employees.

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- •We offer more options in memory storage devices (ie hard disk drives, CD Roms, tape backups,...etc.) than any other store nationwide.
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FOR THE REPUTATION:

- •NCA is a local, national and worldwide supplier of the highest quality brand name computer products.
- •Well over 30% of the Fortune 1000 companies and hundreds of Government and Educational Institutions around the country trust their business to NCA.
- •NCA's proven record of expansion is the result of superior service and commitment to our customers.

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M13

HIGH PERFORMANCE MULTIMEDIA COMPUTER SYSTEMS

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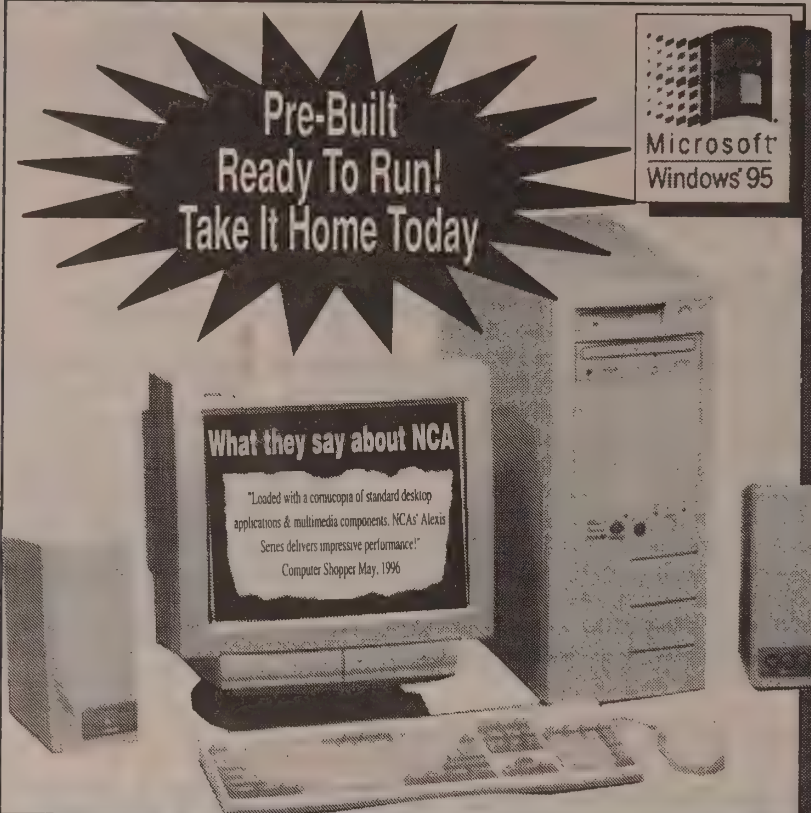


Microsoft Windows 95

What they say about NCA

"Loaded with a cornucopia of standard desktop applications & multimedia components. NCAs' Alexis Series delivers impressive performance!"
Computer Shopper May. 1996

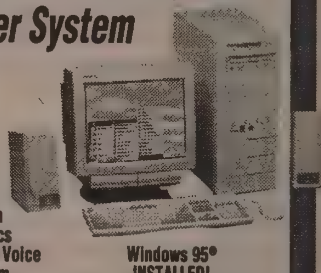
ALEXIS III SERIES - ECS Pent 150

PENTIUM 150MHZ PCI

1.6GB/16MB EDO RAM - 256K Pipeline Burst Cache - 33.6 Fax/Modem

EIGHT-Speed Multimedia Computer System

NEW!



- Elegant 9 bay Mid-tower case
- 250W power supply
- **256K PIPELINE BURST** cache, upgradeable to 512K
- **Intel P150** CPU with Heat Sink, Socket 7, **TRITON II** chipset
- **16MB EDO RAM/72 pin SIMMs** exp. to 128MB
- 4-PCI / 4-ISA (P&P ready), PCI IDE I/O On-board
- **Diamond 3D 64-bit PCI 2MB EDO** DRAM video card
- **Western Digital 1.6GB** Enhanced IDE hard drive
- 1.44MB floppy drive
- Internal **EIGHT-SPEED** Enhanced IDE CD-ROM drive
- **Creative Labs** SoundBlasterVibra 16 **16-bit** sound card
- **USRobotics 33.6Kbps Plug and Play**, Internal Fax/Modem **w/ Voice**
- **Microsoft** Mouse
- 101-Key keyboard
- **Yamaha** YST-M7 speakers
- **FCC Class B certified**

Monitor not included

Now With US Robotics 33.6Kbps with Voice Fax Modem

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ENHANCED IDE

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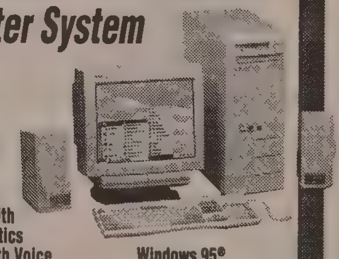
ALEXIS III SERIES - ECS Pent 133

PENTIUM 133MHZ PCI

1.6GB/16MB EDO RAM - 256K Pipeline Burst Cache - 33.6 Fax/Modem

EIGHT-Speed Multimedia Computer System

NEW!



- Elegant 9 bay Mid-tower case
- 250W power supply
- **256K PIPELINE BURST** cache, upgradeable to 512K
- **Intel P133** CPU with Heat Sink, Socket 7, **TRITON II** chipset
- **16MB EDO RAM/72 pin SIMMs** exp. to 128MB
- 4-PCI / 4-ISA (P&P ready), PCI IDE I/O On-board
- **Diamond 3D 64-bit PCI 2MB EDO** DRAM video card
- **Western Digital 1.6GB** Enhanced IDE hard drive
- 1.44MB floppy drive
- Internal **EIGHT-SPEED** Enhanced IDE CD-ROM drive
- **Creative Labs** SoundBlasterVibra 16 **16-bit** sound card
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- **Microsoft** Mouse
- 101-Key keyboard
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- **FCC Class B certified**

Monitor not included

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ALEXIS III SERIES - ECS Pent 100

PENTIUM 100MHZ PCI

850MB/8MB EDO RAM - 256K Pipeline Burst Cache - 33.6 Fax/Modem

EIGHT-Speed Multimedia Computer System

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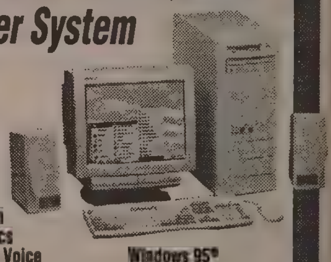

- Elegant 9 bay Mid-tower case
- 250W power supply
- **256K PIPELINE BURST** cache, upgradeable to 512K
- **Intel P100** CPU with Heat Sink, Socket 7, **TRITON II** chipset
- **8MB EDO RAM/72 pin SIMMs** exp. to 128MB
- 4-PCI / 4-ISA (P&P ready), PCI IDE I/O On-board
- **Diamond 3D 64-bit PCI 2MB EDO** DRAM video card
- **Western Digital 850MB** Enhanced IDE hard drive
- 1.44MB floppy drive
- Internal **EIGHT-SPEED** Enhanced IDE CD-ROM drive
- **Creative Labs** SoundBlasterVibra 16 **16-bit** sound card
- **USRobotics 33.6Kbps Plug and Play**, Internal Fax/Modem **w/ Voice**
- **Microsoft** Mouse
- 101-Key keyboard
- **Yamaha** YST-M7 speakers
- **FCC Class B certified**

Monitor not included

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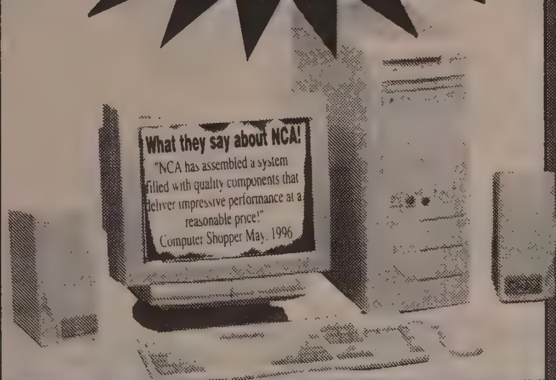

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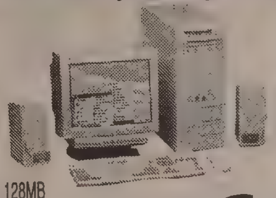
"NCA has assembled a system filled with quality components that deliver impressive performance at a reasonable price!"
Computer Shopper May, 1996

ALEXIS III SERIES - QPV200 33.6-8X

PENTIUM 200MHZ PCI

2.1GB/32MB EDO RAM · 512K Pipeline Burst Cache · 33.6 Fax/Modem

EIGHT-Speed Multimedia Computer System



- Elegant 9 bay Mid-tower case
- **250W** power supply
- **512K PIPELINE BURST** cache
- **Intel P200** CPU with Heat Sink
- Socket 7, **TRITON** chipset
- **32MB EDO RAM/72 pin SIMMs** exp. to 128MB
- 4-PCI / 4-ISA (P&P ready), PCI IDE I/O On-board
- **2MB** VRAM video card
- **2.1GB** Enhanced IDE hard drive
- 1.44MB floppy drive
- Internal **EIGHT-SPEED** Enhanced IDE CD-ROM drive
- **Creative Labs SoundBlaster** 32-bit Wavetable sound card
- 33.6Kbps Internal Fax/Modem
- **Microsoft** Mouse
- 101-Key keyboard
- **Yamaha** YST-M7 speakers
- Monitor not included

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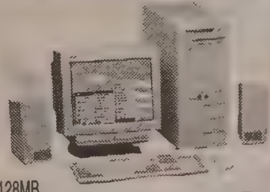
ALEXIS III SERIES - QPV166 33.6-8X

PENTIUM 166MHZ PCI

2.1GB/32MB EDO RAM · 512K Pipeline Burst Cache · 33.6 Fax/Modem

EIGHT-Speed Multimedia Computer System



- Elegant 9 bay Mid-tower case
- **250W** power supply
- **512K PIPELINE BURST** cache
- **Intel P166** CPU with Heat Sink
- Socket 7, **TRITON** chipset
- **32MB EDO RAM/72 pin SIMMs** exp. to 128MB
- 4-PCI / 4-ISA (P&P ready), PCI IDE I/O On-board
- **2MB** VRAM video card
- **2.1GB** Enhanced IDE hard drive
- 1.44MB floppy drive
- Internal **EIGHT-SPEED** Enhanced IDE CD-ROM drive
- **Creative Labs SoundBlaster** 32-bit Wavetable sound card
- 33.6Kbps Internal Fax/Modem
- **Microsoft** Mouse
- 101-Key keyboard
- **Yamaha** YST-M7 speakers
- Monitor not included

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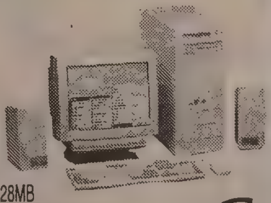
ALEXIS III SERIES - QPV150 33.6-8X

PENTIUM 150MHZ PCI

1.6GB/16MB EDO RAM · 256K Pipeline Burst Cache · 33.6 Fax/Modem

EIGHT-Speed Multimedia Computer System



- Elegant 9 bay Mid-tower case
- **250W** power supply
- **256K PIPELINE BURST** cache, upgradeable to 512K
- **Intel P150** CPU with Heat Sink, Socket 7
- **TRITON** chipset
- **16MB EDO RAM/72 pin SIMMs** exp. to 128MB
- 4-PCI / 4-ISA (P&P ready), PCI IDE I/O On-board
- **2MB** VRAM video card
- **1.6GB** Enhanced IDE hard drive
- 1.44MB floppy drive
- Internal **EIGHT-SPEED** Enhanced IDE CD-ROM drive
- **Creative Labs SoundBlaster** 32-bit Wavetable sound card
- 33.6Kbps Internal Fax/Modem
- **Microsoft** Mouse
- 101-Key keyboard
- **Yamaha** YST-M7 speakers
- Monitor not included

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ALEXIS III SERIES - QPV133 33.6-8X

PENTIUM 133MHZ PCI

1.6GB/16MB EDO RAM · 256K Pipeline Burst Cache · 33.6 Fax/Modem

EIGHT-Speed Multimedia Computer System

- Elegant 9 bay Mid-tower case
- **250W** power supply
- **256K PIPELINE BURST** cache, upgradeable to 512K
- **Intel P133** CPU with Heat Sink, Socket 7
- **TRITON** chipset
- **16MB EDO RAM/72 pin SIMMs** exp. to 128MB
- 4-PCI / 4-ISA (P&P ready), PCI IDE I/O On-board
- **2MB** VRAM video card
- **1.6GB** Enhanced IDE hard drive
- 1.44MB floppy drive
- Internal **EIGHT-SPEED** Enhanced IDE CD-ROM drive
- **Opti 16-bit** sound card
- 33.6Kbps Internal Fax/Modem
- **Microsoft** Mouse
- 101-Key keyboard
- **Yamaha** YST-M7 speakers
- Monitor not included

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ALEXIS III SERIES - QPV120 33.6-8X

PENTIUM 120MHZ PCI

850MB/8MB EDO RAM · 256K Pipeline Burst Cache · 33.6 Fax/Modem

EIGHT-Speed Multimedia Computer System

- Elegant 9 bay Mid-tower case
- **250W** power supply
- **256K PIPELINE BURST** cache, upgradeable to 512K
- **Intel P120** CPU with Heat Sink, Socket 7
- **TRITON** chipset
- **8MB EDO RAM/72 pin SIMMs** exp. to 128MB
- 4-PCI / 4-ISA (P&P ready), PCI IDE I/O On-board
- **2MB** VRAM video card
- **850MB** Enhanced IDE hard drive
- 1.44MB floppy drive
- Internal **EIGHT-SPEED** Enhanced IDE CD-ROM drive
- **Opti 16-bit** sound card
- 33.6Kbps Internal Fax/Modem
- Mouse
- 101-Key keyboard
- **Yamaha** YST-M7 speakers
- Monitor not included

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- 5400RPM
- Fast ATA-2

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- Fast ATA-2

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530MB IDE 3.5"X1" HARD DRIVE

- M1612TAU
- 12ms
- 128K cache
- Fast ATA-2

$119.95

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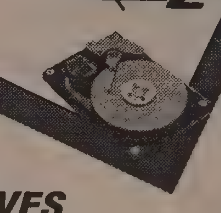
540MB IDE 3.5"X1" HARD DRIVE

- ST3541A
- 14ms
- 64K cache
- Fast ATA-2

$119.95



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Quantum™

2.1GB IDE 3.5"X1" HARD DRIVE

- QM32110TMA
- 11ms
- 128K cache
- 5400RPM
- Fast ATA-2

$269.95

Quantum™

3.2GB IDE 3.5"X1" HARD DRIVE

- QM33200TMA
- 11ms
- 128K cache
- 5400RPM
- Fast ATA-2

$359.95

FUJITSU

2.1GB IDE 3.5"X1" HARD DRIVE

- M1624TAU
- 10ms
- 128K cache
- 5400RPM
- Fast ATA-2

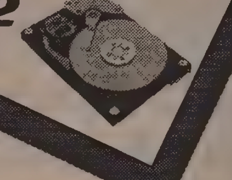
$279.95

Seagate

1.2GB IDE 3.5"X1" HARD DRIVE

- ST31275A
- 14ms
- 64K cache
- Fast ATA-2

$189.95



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WESTERN DIGITAL

3.1GB IDE 3.5"X1" HARD DRIVE

- AC33100
- sub 12ms
- 128K cache
- 5200RPM
- Enhanced IDE

$399.95

NEW!

WESTERN DIGITAL

2.1GB IDE 3.5"X1" HARD DRIVE

- AC32100
- 12ms
- 128K cache
- Enhanced IDE

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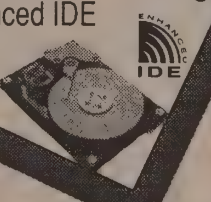


WESTERN DIGITAL

2.5GB IDE 3.5"X1" HARD DRIVE

- AC32500
- 12ms
- 128K cache
- Enhanced IDE

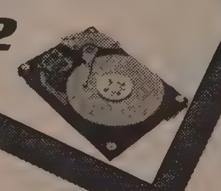
$299.95

Seagate

1.6GB IDE 3.5"X1" HARD DRIVE

- ST31621A
- 14ms
- 64K Cache
- Fast ATA-2

$209.95



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SCSI HARD DRIVES

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Quantum™
2.1GB SCSI-II 3.5" HARD DRIVE
- XP32150SWAD
- 1MB Cache
- 8.5ms

$519.95

WITH 50 PIN ADAPTER

External SCSI Drive For PC or MAC
Tornado Series INCLUDES:
- FWB Toolkit (MAC only)
- SCSI cable & terminator

$599.95

Quantum™
2.1GB SCSI-III 3.5"X1" HARD DRIVE
- QM32110TMS
- 128K Cache
- 5400RPM
- 11ms

$399.95

External SCSI Drive For PC or MAC
Tornado Series INCLUDES:
- FWB Toolkit (MAC only)
- SCSI cable & terminator

$479.95

Seagate
1.08GB SCSI-II 3.5"X1" HARD DRIVE
- ST51080N
- Fast 12.5ms
- 128K Cache

$239.95

NEW!

External SCSI Drive For PC or MAC
Tornado Series INCLUDES:
- FWB Toolkit (MAC only)
- SCSI cable & terminator

$319.95

Seagate
4.3GB SCSI-II 3.5" HARD DRIVE
- ST15230N
- 512K Cache
- 9ms

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External SCSI Drive For PC or MAC
Tornado Series INCLUDES:
- FWB Toolkit (MAC only)
- SCSI cable & terminator

$979.95

FULL LINE OF NAME BRAND MASS STORAGE SCSI HARD DRIVES

Quantum™
4.3GB SCSI-II 3.5" HARD DRIVE
- XP34300SWAD
- 1024K Cache
- 8.5ms

$849.95

WITH 50 PIN ADAPTER

External SCSI Drive For PC or MAC
Tornado Series INCLUDES:
- FWB Toolkit (MAC only)
- SCSI cable & terminator

$949.95

FUJITSU
2.5GB SCSI-II 3.5"X1" HARD DRIVE
- M1638SAU
- 128K Cache
- 5400RPM
- 10ms

$429.95

External SCSI Drive For PC or MAC
Tornado Series INCLUDES:
- FWB Toolkit (MAC only)
- SCSI cable & terminator

$509.95

Seagate
9.1GB Ultra SCSI-II 3.5" HARD DRIVE
- ST19171N
- 9.5ms
- 512K cache
- 7200RPM

$2499.95

NEW!

External SCSI Drive For PC or MAC
Tornado Series INCLUDES:
- FWB Toolkit (MAC only)
- SCSI cable & terminator

$2699.95

FUJITSU
4.3GB SCSI-II 3.5" HARD DRIVE
- M2934SAU
- 512K Cache
- 10ms

$899.95

External SCSI Drive For PC or MAC
Tornado Series INCLUDES:
- FWB Toolkit (MAC only)
- SCSI cable & terminator

$999.95

FULL LINE OF NAME BRAND MASS STORAGE SCSI HARD DRIVES

MICROPOLIS
2.0GB SCSI-II 3.5" HARD DRIVE
- MC4421S
- Aries 2
- 512K Cache
- 9.75ms

$399.95

External SCSI Drive For PC or MAC
Tornado Series INCLUDES:
- FWB Toolkit (MAC only)
- SCSI cable & terminator

$479.95

MICROPOLIS
4.3GB SCSI-II 3.5" HARD DRIVE
- MC3243S
- 512K Cache
- 8.5ms

$899.95

External SCSI Drive For PC or MAC
Tornado Series INCLUDES:
- FWB Toolkit (MAC only)
- SCSI cable & terminator

$999.95

MICROPOLIS
9.1GB SCSI-II 5.25" HARD DRIVE
- MC1991
- 512K Cache
- 8.5ms

$1699.95

External SCSI Drive For PC or MAC
Tornado Series INCLUDES:
- FWB Toolkit (MAC only)
- SCSI cable & terminator

$1899.95

IBM
2.1GB SCSI-II 3.5"X1" HARD DRIVE
- 32160
- 8.5ms
- 5400 RPM
- 5 yr. warranty

$359.95

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Tornado Series INCLUDES:
- FWB Toolkit (MAC only)
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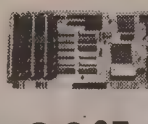
16-Bit RAID-1 Disk Mirroring Adapter

DTC HardCopy



AN AFFORDABLE AUTOMATIC ONLINE BACKUP SOLUTION

- On-board BIOS support for Enhanced IDE drives over 528MB
- Supports all major operating systems without the need for software drivers

$189.95

ENHANCED IDE

DATA TECHNOLOGY CORPORATION

VLB-Enhanced IDE Controller With BIOS

DTC 2278EB

- 32-bit VESA local bus compliant
- 2 high speed 16550 serial ports, 1 enhanced parallel port (EPP/ECP), 1 game port
- Dual IDE ports support up to 4 Enhanced IDE drives
- Programmable data transfer rate (Mode 0-4) for each drive on each port
- Support for all major operating systems

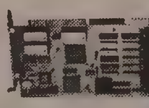
$38.95

ENHANCED IDE

DATA TECHNOLOGY CORPORATION

16-Bit ISA IDE & Super I/O Host Adapter

DTC 2280E



- 16-bit ISA support
- High speed serial ports (16550 compatible), 1 enhanced parallel port (EPP/ECP), 1 game port
- Controls up to 2 IDE hard drives including Enhanced IDE and Fast ATA
- Supports IRQ14 and IRQ15
- Support for all major operating systems

$19.95

ENHANCED IDE

WESTERN DIGITAL

32-Bit PCI to SCSI-II Controller

WD-7193

- 32-bit PCI Bus Master
- Fast SCSI, 10MB/sec. transfer rate
- Automatic termination & configuration
- Software selectable boot drive
- CorelSCSI! software included

PLUG & PLAY

MICROSOFT. WINDOWS.

$69.95

Includes CorelSCSI version 2 software!

gsi™

16-Bit ISA-IDE Floppy & 250 Tape Controller Card

GSI 21

- Supports 2 IDE hard drives of any capacity up to 8.4GB
- Easy installation as on-board flash BIOS auto installs IDE hard drives
- Flash BIOS accelerates IDE data transfer rates up to 95%
- Supports 4 floppy drives including industry standard 2.88 MB

FAST ATA 2

$55.95

ENHANCED IDE

gsi™

32-Bit VESA Extender For GSI-ISA Controllers

GSI 1645-V1

NEW!

- Supports PIO Mode 3 (11MB/sec.) and Mode 4 (16.7MB/sec.) hard drives
- No need to reformat hard drive
- Compatible with all major operating system software
- Allows mixing of old and new hard drives
- Compatible with EIDE & Fast ATA-2 drives
- Requires GSI 16-bit ISA controller (which may need FREE BIOS update)

FAST ATA 2

$89.95

ENHANCED IDE

PROMISE TECHNOLOGY, INC.

Enhanced IDE Controller Card

DC-2300+

- Complete Enhanced IDE support
- Perfect solution for high capacity drives with on-board BIOS
- Connect up to 4 IDE devices including IDE CD-ROM drives
- High speed I/O

FAST ATA 2

$59.95

NEW!

ENHANCED IDE

PROMISE TECHNOLOGY, INC.

16-Bit Enhanced IDE Disk Controller

EIDEPRO-ISA

- Supports up to 4 EIDE devices including IDE CD-ROM & Tape Drives
- On-Board LBA BIOS supports 4 High Capacity Drives w/o drivers
- Two High-speed Serial Ports for fast fax/modems & DSVD modems
- High-speed floppy tape & floppy drive support

FREE CD ACCELERATING SOFTWARE!

$59.95

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BUSLOGIC

Dual Channel Ultra SCSI To PCI Controller Card

KT932 - FlashPoint DL

- 32-bit bus master data transfers of up to 133MB/sec across the PCI bus
- Ultra SCSI data transfers of up to 20MB/sec on each channel
- Supports up to 14 devices (SCSI, SCSI-2, & SCSI-3) including hard drives up to 8GB
- Supports all major operating systems
- 5 year warranty

PLUG & PLAY

$199.95

adaptec

32-Bit VL-To-Fast SCSI & VL-To-EIDE Host Adapter

Total Advantage VL / AVA-2825

- Connect up to 7 SCSI devices
- Up to 2 standard or EIDE devices
- Up to 2 standard and 1 floppy tape drive
- Adaptec EZ-SCSI Lite software
- Up to 5MB/sec. synchronous on the SCSI bus
- Advanced SCSI programming interface compliant, disconnect/reconnect, synchronous and asynchronous data transfer

$145.95

ENHANCED IDE

adaptec

16-bit ISA to Fast SCSI-II Controller

AHA-1522B plus

- Connect up to 7 SCSI devices
- Adaptec EZ-SCSI Lite software with 32-bit applications for Windows 95 & Windows NT
- Connect SCSI-II Hard Drives, CD-ROMs, removable disks, scanners & other peripherals

$135.95

adaptec

32-Bit PCI to SCSI-II Controller

AHA-2920

- Connect up to 7 SCSI devices
- 10MB/s fast synchronous SCSI-II burst transfer rate on the SCSI bus
- Adaptec EZ-SCSI Lite software with 32-bit applications for Windows 95 & Windows NT
- Plug & Play support for Hard Disk, CD-ROM, removable disk, scanner, tape, ZIP, MO, DAT and other SCSI devices
- Programmable I/O (PIO) data transfer
- Compliance with 133MB/s PCI local bus specification

$145.95

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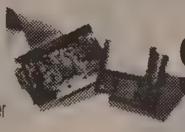
PCI SCSI Master / AHA-2940

Maximizes PCI-system performance with easy-to-use RISC-based SCSI I/O

- 133MB/sec. burst data rate on the PCI local bus
- 10MB/sec. synchronous data rate on the Fast SCSI bus
- Full 32-bit wide data transfers
- Supports up to 7 individually configured SCSI-II devices simultaneously (asynchronous and synchronous)
- Includes software for SCSI tape backup (Back Basics), Photo CD Viewer (Magic Lantern), and CD player applications

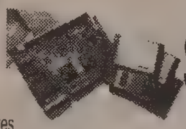


$\$249^{95}$

SCSI Master (Plug & Play)/AHA-1542CP

Easiest way to add high-performance Plug & Play SCSI to your system

- 10MB/sec. burst data rate on the ISA
- 10MB/sec. synchronous burst data rate on the Fast SCSI-II bus
- 16-bit data transfer on the ISA bus
- Full multitasking and multithreading
- Supports up to 7 SCSI devices simultaneously
- Supports up to two floppy drives
- Designed to support double-, quad-, and six-speed CD-ROM drives



$\$235^{95}$

TotalAdvantage VL/AVA-2825

Complete 32-bit VL-to-Fast SCSI & VL-to-EIDE host adapter

- AVA-2825 VL-to-Fast SCSI & VL-to-E-IDE (enhanced IDE)
- Connect up to 7 SCSI devices
- Up to 2 standard or enhanced IDE devices
- Up to 2 standard and 1 floppy tape drive
- Adaptec EZ-SCSI lite software
- Up to 5MB/sec. synchronous on SCSI bus
- Advanced SCSI programming interface compliant, disconnect/reconnect, synchronous & asychronous data transfer

$\$145^{95}$

Slim SCSI / APA-1460

16-bit PCMCIA-to-Fast SCSI-II host adapter

- Compact design - Type II credit card sized adapter and 3-foot cable only weigh 6.4oz.
- 32-wire cable ensures clean SCSI signals and reliable connection
- Up to 7 SCSI devices
- 2MB/sec. host bus data transfer rate (16-bit)
- 10MB/sec. synchronous data transfer on the SCSI bus

$\$169^{95}$

AHA-2920

NEW!

Fast, simple SCSI connection for your Pentium PC

- 10MB./sec fast synchronous (SCSI-II) burst rate on the SCSI bus
- Up to 7 SCSI devices supported simultaneously
- Plug & Play support for hard disk, CD-ROM, removable disk, scanner, tape, Zip, MO, DAT, and other SCSI-II devices
- Programmable I/O (PIO) data transfer
- Compliance with 133 MB/sec. PCI local bus specification

$\$149^{95}$

gsi

GSI Enhanced IDE Accelerator Boards

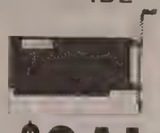
FAST ATA 2

ENHANCED IDE

GSI Model 2C

16-Bit Dual-Channel EIDE Adapter

- Supports four EIDE DRives (above 528MB support)
- Co-resides with other disk controller boards
- Upgradeable to 32-bit using GSI VESA Extenders
- On-board Flash BIOS means no drivers required



NEW!

$CALL

GSI Model 12

8-Bit Four-Floppy & QIC-80, 3010 & 3020 Tape Accelerator Board

- High-speed 2MB/sec. floppy interface (up to 4 floppy drives)
- Quadruples the speed of 3.2GB (QIC-3020) tape drive t0 16-19MB/min.
- Fully supports 2.88MB floppy disk drives
- On-board Flash BIOS means no drivers required
- Co-resides with other disk controller boards
- Perfect floppy or tape upgrade board

NEW!

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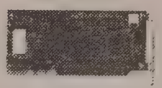
GSI Model 18

16-Bit Primary or Secondary IDE Accelerator Board

- 16-Bit ISA complaint with new enhanced IDE & Fast ATA standards
- Supports two IDE drives
- Increases IDE hard drive data transfer rates up to 80%!
- Compatible with Windows, Novell NetWare, DOS & OS/2
- Tested & recommended by major disk drive manufacturers



$\$39^{95}$

GSI Model 21

16-Bit IDE, Floppy & QIC-80 Tape Accelerator Board

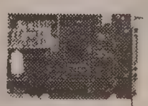
- 16-Bit ISA complaint with new enhanced IDE & Fast ATA standards
- Supports two IDE drives
- Increases IDE hard drive data transfer rates up to 80%!
- High-speed 1MB/sec. floppy interface (up to 4 floppy drives)
- Doubles the speed of the 250MB or 420MB (QIC-80) tape drives
- Fully supports 2.88MB floppy disk drives
- Compatible with Windows, Novell NetWare, DOS & OS/2

$\$55^{95}$

GSI Model 32

16-Bit Multi-Port IDE, Floppy, Tape & I/O Accelerator Board

- 16-Bit ISA complaint with new enhanced IDE & Fast ATA standards
- Supports two IDE drives
- Increases IDE hard drive data transfer rates up to 80%!
- High-speed 1MB/sec. floppy interface (up to 4 floppy drives)
- Doubles the speed of the 250MB or 420MB (QIC-80) tape drives
- Dual 16550 UART serial ports & one bi-directional parallel port
- Compatible with Windows, Novell NetWare, DOS & OS/2

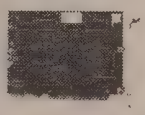


$\$119^{95}$

GSI Model 4C

16-Bit Four Channel, Eight-IDE Accelerator Board

- 16-Bit ISA complaint with new enhanced IDE & Fast ATA standards
- Supports up to eight IDE drives
- Increases IDE hard drive data transfer rates up to 80%!
- NO drivers needed
- Perfect for Novell mirroring or duplexing
- Compatible with Windows, Novell NetWare, DOS & OS/2



$\$125^{95}$

GSI Model 1645-V1

High Performance VESA Extender Module for GSI-ISA Boards

- 32-Bit VESA extender for GSI-ISA controllers
- No messy install programs or drivers required
- Supports PIO mode 3 & mode 4 hard drives
- No need to reformat the hard drive-just plug & play
- Requires GSI 16-Bit ISA controller (Which may need free BIOS updated)

NEW!

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GSI Model 1645-V2 (same as V1 except 4 drives) .... $\$142^{95}$

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CDR-100

- 4X record / 4X read
- 512K internal cache
- 2MB/sec asynch transfer rate
- CD caddy loading
- Vibration proof
- Includes Gear recording software for PC or MAC blank CD disc & cable
- OEM

$899⁹⁵

WOW! *4X write & read!*

For PC or MAC

PERTEC
800MB Internal TRAVAN Tape Backup

My Tape 800

- Up to 800MB capacity using data compression
- Double the speeed of QIC-80
- Drop & Drag backup software Windows & Windows 95
- Aluminum Chassis
- 5 year warranty

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INCLUDES FREE Tape Cartridge! *(A $36 Value)*

Seagate
8.0GB SCSI Internal Tape Backup Drive

NEW!

Tape•Stor 8000

- Up to 8.0GB compressed
- Up to 60MB per minute/ compressed transfer rate
- Connects to your SCSI controller
- Includes BackupExec software

$399⁹⁵

EXABYTE®
NEW!

4.4GB Portable Tape Backup Drive & Drive Bay

Eagle Nest with EagleTR-3

- Runs off Floppy Port

Eagle TR3-:

- Includes excelerator card & backup software
- 4.4 GB capacity (2.2GB native)
- Up to 20MB/min back up speed
- Two year warranty

Eagle Nest:

- Plug into your PC's floppy ports & share one eagleTR-3 tape backup drive amoungst your PC's. One drive versus many equals incredible cost savings, not to mention time saved with the faster backup rate of the floppy port.

$199⁹⁵

JVC
Recordable Internal SCSI-2 CD Drive & Software

XR-W2010

- 1MB internal cache
- Write speed: 2x
- Read speed: 4X
- Includes Gear™ CD recording software
- FREE Blank CD-R disk
- OEM

$499⁹⁵

WOW! *While Supplies Last*

For PC or MAC

COLORADO MEMORY SYSTEMS
NEW!

3.2GB Internal Tape Backup System

T-3000

- Up to 3.2GB capacity using data compression
- Up to 19MB/min. backup
- Includes powerful, easy to use software
- Includes Windows 95 Driver

$209⁹⁵

WOW!

INCLUDES FREE TR-3 Tape! *(A $45 Value)*

SyQuest
270MB SCSI-II Internal 3.5" Removable Cartridge System

- 13.5ms access time
- 128K cache
- BARE DRIVE

$119⁹⁵

While Supplies Last

External for PC or Mac......$199⁹⁵

UNLIMITED PORTABLE STORAGE ON A 3.5" DISK!

COLORADO MEMORY SYSTEMS
800MB Internal Tape Backup System

T-1000

- Up to 800MB capacity using data compression
- Up to 9.5MB/min. backup
- Includes powerful, easy to use software
- Includes Windows 95 Driver

$149⁹⁵

INCLUDES FREE TR-1 Tape! *(A $36 Value)*

WOW!

HEWLETT PACKARD
Recordable Internal SCSI-2 CD-ROM Drive

C-4324

- 2x write/4x read
- 650MB capacity
- EZ-CD Pro recording software
- Manuals
- OEM

$599⁹⁵

WOW! *While Supplies Last*

For PC or MAC

HEWLETT PACKARD
2.0GB SCSI-2, 4mm, 3.5" Internal DAT TAPE DRIVE

C1534A

WOW!

- 2GB of Data on a Single Cartridge
- Avg. 50sec. File Find (Fastsearch)
- 183Kb/s Transfer Rate
- Uses 60 & 90 meter Cartridge
- Compliant with all DDS DAT Drives

$549⁹⁵

HEWLETT PACKARD
4.0GB SCSI-2, 4mm, 3.5" Internal DAT TAPE DRIVE

C1536A

WOW!

- 4GB of Data on a Single Cartridge
- Avg. 50sec. File Find (Fastsearch)
- 366Kb/s Transfer Rate
- Uses 60 & 90 meter Cartridges
- Compliant with all DDS DAT Drives

$649⁹⁵

TEAC
High Quality

Floppy Drives

1.44MB 3.5	$29⁹⁵
1.2MB 5.25"	$43⁹⁵

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NEW!

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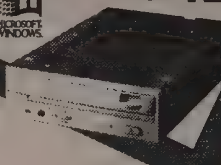

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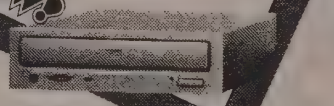

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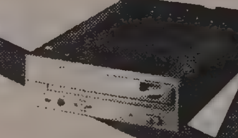

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Waveforce SW60XG

- For the PC gamer or musician
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  676 voices, 21 drum kits, 480 melody voices, 11 drum kits compatible with General MIDI
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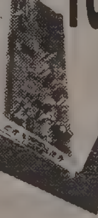

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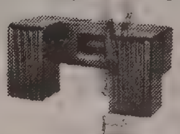

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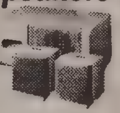

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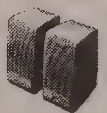

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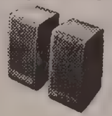

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12W, 3" satellites, One 1/2" dome tweeter,
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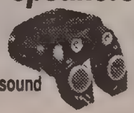

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ACS300.1 *Shielded computer speakers with subwoofer*

18W, 3" satellites, Two 18W, 4" throw woofers,
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Complete portable presentation unit, dual-speed CD-ROM, Multisession photo CD, Built-in 16-bit stereo sound & audio CD play, 4-speaker array capable for powerful stereo sound, subwoofer output, hi-fidelity microphone, PCMCIA interface

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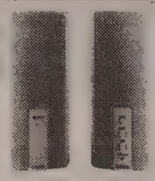

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- Video Shielded
- Active Servo Technology delivers Life-Like sound
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- Headphones and subwoofer output jacks

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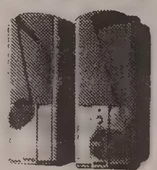
YST-M7

Active Servo Technology



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POWERED SUBWOOFERS

YST-MSW10

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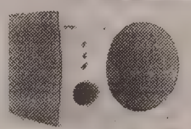

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System 45

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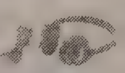

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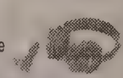

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18-Bit Wavetable Sound Card
WAVEFORCE SW60XG

Buy a Waveforce SW60XG & receive a copy of the XG Song Library CD

To say that the Yamaha WaveForce SW60XG offers the best sound ever from a computer doesn't even begin to tell the story. With 4MB of waveROM for more and better sounds; digital signal processing for studio-quality effects; 18-bit digital-to-analog conversion for more dynamic range than an audio CD; and microphone, CD, and line inputs, the SW60XG will entirely change your perception of a computer sound system. Whether you are a game player looking for the ultimate audio experience, or a musician requiring complete musical expression, or if you're looking for the best music and sounds for multimedia, the SW60XG is your complete solution

18-Bit D/A Converter

The SW60XG's premium sound is also a result of it's 18-bit Digital-to-Analog converter (DAC), the computer industry's first! The DAC converts digital data for analog output for your powered speakers. The more bits, the greater the dynamic range. A wider range means less noise, softer softs, and louder louds for crisp exceptional sound.

Add Your Own Voice

With all the exceptional sounds sounds on the SW60XG, there's still something you can add: your own voice. The SW60XG accepts a microphone input so you can sing right into the computer. You can also plug in acoustic instruments and a CD as well, then apply DSP effects to any of these inputs. With the mic and CD inputs and the SW60XG's Voice Cancel mode (which eliminates vocals from pre-recorded music**), you can sing lead with your favorite recording. **COMPATIBILITY** - XG will remain fully compatible with current industry standards. **SCALABILITY** - XG data is transportable across products, from professional synthesizers to sound cards. Yamaha has incorporated XG into it's diverse line of digital instruments, including MU tone generators such as the QS300 music production synthesizer. **EXPANDABILITY** - XG can be updated yet maintain all it's compatibility and scalability.

Tone generation	Wave Table (Yamaha AWM2)
Polyphony	Maximum 32 notes
Parts	16 parts (Dynamic Voice Allocation)
Voice ROM	4MB
Number Of Voices	Total 676 voices, 21 drum kits 480 melody voices, 11 drum kits; compatible with General MIDI Level 1, and XG
Effects	Reverb - 11 types; Chorus-11 types; Variation- 42 types
D/A Conversion	18-bit

** Effectiveness of this feature may vary upon recording

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YAMAHA XG THE WAY YOUR COMPUTER SHOULD SOUND.

Wavetable Sound Daughter Board
WAVEFORCE™ DB50XG

Buy a Waveforce DB50XG & receive a copy of the XG Song Library CD

Easy Installation

The DB50XG snaps easily and quickly onto most Creative labs SoundBlaster 16 sound cards or onto any card with a WaveBlaster expansion port.

Extensive Compatibility

The DB50XG in compatible with the industry standard: General MIDI (GM). Every GM compatible DOS or Windows game and application will play beautifully on the DB50XG.

Exceptional Sound

DB50XG goes beyond General MIDI. It's the first daughter board with XG - a major technological advancement developed by Yamaha. First, XG allows significantly more voices than GM. In total, DB50XG adds over 548 voices into the 128 standard GM choices. The DB50XG allows you to play more voices at once, allowing for more dramatic impact. Additionally, XG features state-of-art Digital Signal Processing (DSP) that creates unprecedented realism. When added to the extensive voice list, the DB50XG has the depth and range to create the most realistic - or surrealistic - sounds in the galaxy. When combined with the Yamaha YST speakers, your sound will be so dramatic, you won't play the game, you'll live it!

Tone generation	Wave Table (Yamaha AWM2)
Polyphony	Maximum 32 notes
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Voice ROM	4MB
Number Of Voices	Total 676 voices, 21 drum kits 480 melody voices, 11 drum kits; compatible with General MIDI Level 1, and XG
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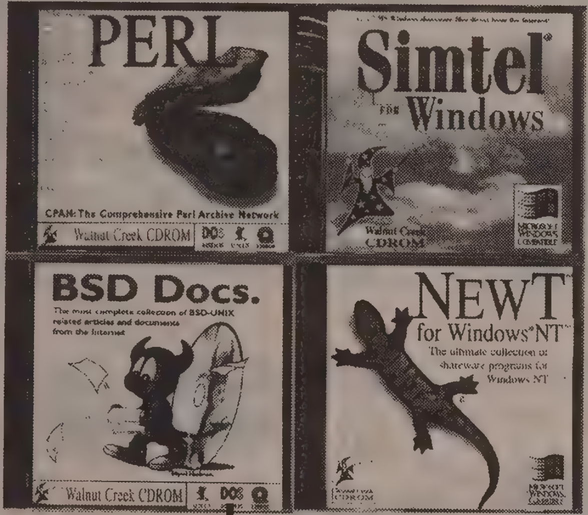
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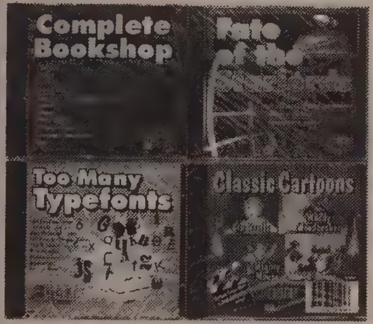
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HIGH QUALITY PRODUCTS

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ARTEC® High Quality Scanners & Pointing Devices

4800x4800 DPI 24-Bit Color Flatbed Scanner

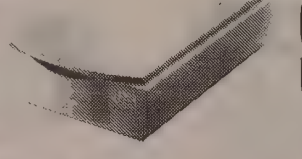
Viewstation AT3

Includes PC & Mac PhotoShop LE & WordLinx OCR Software

NEW SINGLE PASS SCANNER

NEW!

- TWAIN & SCSI-II for PC or Mac
- A4 scanning area
- 4800x4800 dpi through software interpolation
- Intelligent LCD panel
- Long lasting cold cathode lamp (lasts 30 times longer than hot lamps)
- 16.8 million colors
- 256 grayscale levels
- Includes PhotoShop LE image editing software WordLinx OCR software & MediaHouse document management software

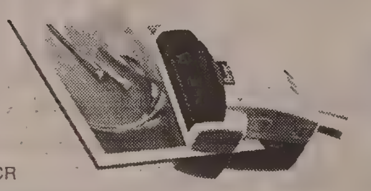


$349.95

Handheld True 16.7 Million Color Scanner Kit for Windows

Home 1

- 400dpi, 2400dpi through software interpolation
- Patented missing line compensation
- Auto, semi-auto & manual merge/stitch
- Includes Interface card & PhotoStacker Pro image editing software, WordLinx OCR software & MediaHouse document management software



$119.95

400dpi Optomechanical 3-button Programmable Mouse

AM820

-Dos, Windows 3.X & Windows 95 support
-Mouse control software controls 2 or 3 key response, speed, double click speed, sensitivity without the need for rebooting!

$7.95

Cornerstone

Introducing High-End Color Performance At Low-End Pricing!

The Color 17/76 monitor is the most cost-effective document imaging solution, designed specifically for workplace environments in which users use a mix of document imaging and other business applications.

energy EPA POLLUTION PREVENTER

NEW!

Cornerstone 17/76

Superior Features:

- 17" diagonal display size
- Default resolution of 1280 X 1024 @ 76Hz refresh
- High resolution up to 1600 X 1200 @ 66 Hz refresh
- Super fine .26mm dot pitch
- Digital controls with on-screen programming
- Hardware based ScaleToGray™ image enhancement eliminates worker eyestrain
- ClearColor™ delivers high quality color image display with sub-half-second display speed
- ImageAccel 2 provides ultra-fast acceleration for Windows and other graphical interfaces
- MPR-II compliant
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- 3 year warranty

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15" 1280X1024 SVGA Color Monitor
15SX

- .25dp
- Trinitron
- 1280X1024
- 60Hz
- Plug & Play
- Energy Star Compliant
- Mac Compatible

$399.95

ViewSonic®

21" 1600X1200 SVGA Color Monitor
G810

NEW!

- 1600X1200
- .25mm dp
- 71Hz

$1599.95

Number Nine

3D 64-Bit Graphics Accelerator With Full Screen Video Playback

9FX REALITY 332

NEW!

- S3d™ViRGE
- Full Screen Digital Video playback
- Optional Hardware MPEG upgrade card
- Up to 150MHz refresh
- Up to 16.7 million colors
- Includes Terminal Velocity, Screamer, Realimation, HAVOC & Web 3D/3DFX

PCI
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DRAM

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128-bit Parallel Processing Accelerator Card

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- 128-bit graphics engine that works in **PARALLEL** with your CPU to process whole lists of instructions at once instead of one at a time Simultaneously processes sixteen 8-bit, eight 16-bit or four 32-bit pixels per instruction
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VRAM

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FULL LINE OF NAME BRAND COLOR VIDEO MONITORS AVAILABLE

SONY

17" 1280X1024 SVGA Color Monitor
17SF2

- .25dp
- Trinitron
- 1280X1024
- 60Hz
- Plug & Play
- Energy Star Compliant
- Mac Compatible

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- 20 preset FM radio Stations
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$209.95*

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3D XPRESSION

NEW!

- Razor sharp 3D graphics & color
- Fast 64-bit 2D graphics
- Full screen TV Quality video at 30fps up to 65,000 colors
- Ideal for Windows or game users
- Extensive Windows utilities
- Optimized for superior Windows 95 performance

PCI
2MB EDO
DRAM

MICROSOFT. WINDOWS.

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20" 1600X1200 SVGA Color Monitor
20SF2

- .30mm dp
- Trinitron
- 1600X1200
- 60Hz

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17" 1280X1024 SVGA Color Monitor
1769DC

- .28mm dp
- Non-interlaced
- 1280X1024
- Plug & Play

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3D, Entertainment & Multimedia Accelerator

Mystique

- 64-bit **PCI** graphics accelerator
- **2MB WRAM** (upgradeable to 4MB)
- Bundled with: Mech Warrior 2, Destruction Derby 2 & Scorched Planet

For full info see page 16

$179.95

4MB PCI - $239.95

matrox

Professional 3D, Graphics & Video Accelerator

Millennium

- 64-bit **PCI** graphics accelerator
- **2MB WRAM** (upgradeable by 4 or 6MB)
- Bundled with: color calibration software, 3D web browser, 3D/FX & Nascar® Racing

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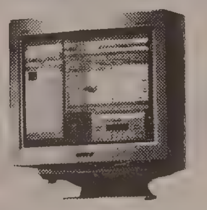
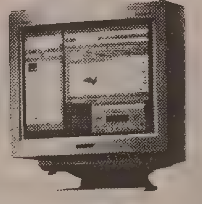


15" Trinitron
1280X1024
.25 Dot Pitch
60Hz Refresh Rate
Plug and Play
Mac Compatible

CPC-15SX

$\$399^{95}$

15" 1280X1024 Trinitron Monitor

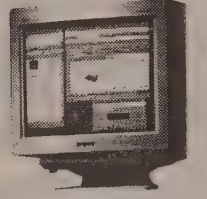


15" Trinitron
1280X1024
.25 Dot Pitch
60Hz Refresh Rate
On-Screen Controls
Plug and Play
Mac Compatible

CPD-15SF/2

$\$499^{95}$

17" 1280X1024 Trinitron Monitor



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1280X1024
.25 Dot Pitch
60Hz Refresh Rate
On-Screen Controls
Plug and Play
Mac Compatible

CPD-17SF/2

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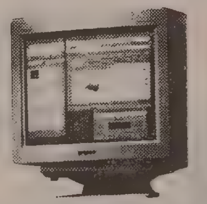
17" 1600X1200 Trinitron Monitor



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On-Screen Controls
Plug and Play
Mac Compatible

GDM17SE/2

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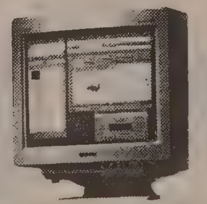
20" 1600X1200 Trinitron Monitor



20" Trinitron
1600X1200
.25 Dot Pitch
60Hz Refresh Rate
On-Screen Controls
Plug and Play
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3D, Entertainment & Multimedia Accelerator

Matrox Mystique

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3D Entertainment
and Multimedia
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- ❖CLUT 4, CLUT 8 & RGB texture support
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Professional 3D, Graphics & Video Accelerator

Matrox Millennium

matrox
MGA
Millennium
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- ❖64-bit high performance professional graphics accelerator
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Ultimate True Color Performance For The Graphics and Multimedia Professional

- All ATI graphics accelerators are optimized for Windows '95 application performance.
- PCI version features plug and play support for Windows '95 and is a licensed Windows '95 product
- Ideal for CAD users, designers, and power users
- High performance 64-bit graphics acceleration
- Vivid true color graphics and sharp image definition
- Up to 16.7 million colors at 1280x1024 (800x600 for 2MB)
- Up to 100Hz refresh rates to help reduce eyestrain
- 2MB (upgradable) and 4MB VRAM
- Extensive Windows utilities

mach64

2MB VRAM *PCI, ISA,* $239.95

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GRAPHICS XPRESSION *Value Packed 64-bit Graphics and Multimedia Perfomance*

- Ideal for Windows or games users
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- 1MB (upgradable) and 2MB DRAM
- Extensive Windows utilities
- Optimized for superior Windows '95 performance

1MB DRAM *PCI, ISA* $92.95

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- Razor sharp 3D graphics and color
- Fast 64-bit 2D graphics over 30 million Winmark
- Full Screen TV quality video at 30fps at up to 65,000 colors
- Ideal for Windows or games users
- Extensive Windows utilities
- Optimized for superior Windows '95 performance

NEW!

2MB EDO DRAM *PCI* $169.95

VIDEO XPRESSION *MPEG, Video Graphics Accelerator*

- Razor sharp graphics and up to 16.7million color
- Fast 64-bit 2D graphics
- Full Screen TV quality video
- Ideal for Windows or games users
- Refresh up to 120Hz
- Up to 1280X1024
- Optimized for superior Windows '95 performance

NEW!

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WINTURBO *Fast 64-bit VRAM Graphics Accelerator*

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- Ideal for users who need fast performance at an affordable price
- Ultra fast 64-bit graphics acceleration
- Vivid colors and sharp image definition
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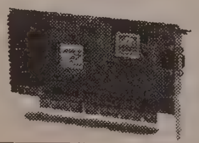
- Up to 100Hz refresh rates to help reduce eye strain
- 2MB VRAM (non upgradable)
- Extensive Windows utilities
- Optimized for superior Windows '95 performance



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XCLAIM GA Macintosh *True Color Graphics Accelerator For Macintosh Design and Publishing Professionals*

- Designed specifically for the Power Macintosh 9500
- Superior 64-bit acceleration
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- Coachmarked and task-assisted AppleGuide implementation
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- High refresh rates to reduce eye strain
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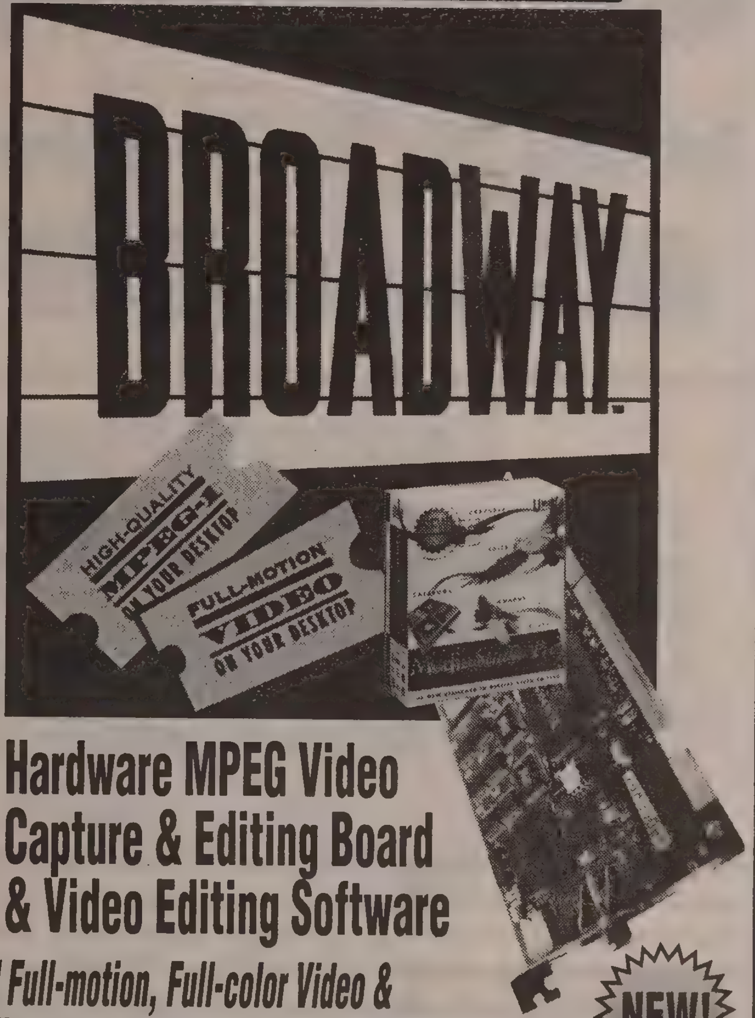
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Hardware MPEG Video Capture & Editing Board & Video Editing Software

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- Capture video to disk in realtime
- 3 times realtime MPEG-1 Compression (I, P, B frames)
- 200:1 Compression ratio
- Can compress Indeo, Cinepak & .AVI files created by other manufacturers' products.
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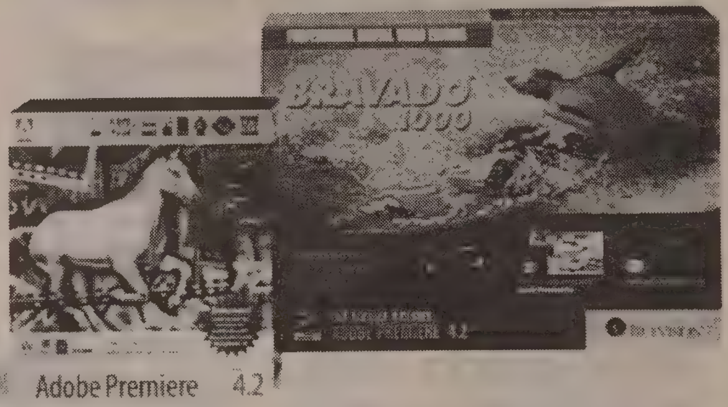

Creating coporate training materials, multimedia content, MTV-style , wedding, trade show videos or sale presentations? Producing videos for personal or home use? Then get your hands on BRAVADO 1000 from Truevision. This professional 32-bit video capture and editing solution is designed to meet all your video editing needs. With the BRAVADO 1000, you'll be able to capture as well as playback video at full speed in full-screen resolutions with higher quality than ever!

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- Full-screen video capture at 50/60 fields per second
- Variable rate, real time Motion-JPEG compression
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- Two composite inputs and one S-Video input
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- 32-bit PCI local bus with Burst DMA
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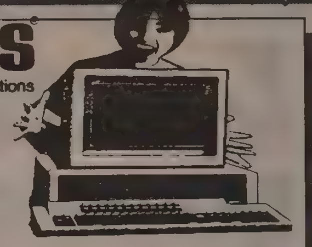

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DIGITAL SIMULTANEOUS VOICE & DATA With *True V.34*

• New technology allows data & voice conferencing simultaneously over one phone line • Work together on Windows documents from PCs in different locations • Share and update information stored on either PC • Connect quickly with speed dialing & built-in phone book • Includes familiar, easy-to-use notebook interface • Great for interactive gaming • Includes FREE Internet connection kit • Includes Intel Pro Share Personal Conferencing Software - a $299 value!

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Sportster Vi 33.6Kbps V.34 external fax/modem w/speakerphone & voice mail for Mac $209.95

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Sportster ISDN 128K

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HIGH SPEED INTERNET ACCESS 7 TELECOMMUTING

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Courier I modem ISDN Terminal adapter for PC

NEW!

ISDN CONNECTIVITY & ANALOG COMPATABILITY IN ONE DEVICE!

• Universal Connect™ • Software Downloads via Flash ROM • Integrated V.34 Fax/Modem, analog device port & NT-1 • USRobotics V.Everything technology • TurboPPP™ • Asynchronous/Synchronous PPP • Dynamic Voice Override Dial Security with Dialback • Microsoft Plug and Play Support & Windows 95 enhancements • Multivendor Interoperability • User configurable Dial Security

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Courier V.Everything w/ V.34 Internal/External .. $279.95/$299.95

28.8bps PCMCIA V.34 fax/modem with data view $219.95

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miro **miro VIDEO DEDICATED video CAPTURE CARDS**

miroVIDEO DC1 Plus

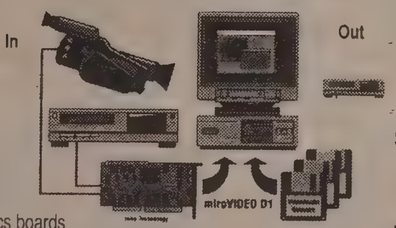
MANUFACTURED IN GERMANY!

Video Digitizing Directly To Your Hard Disk • Overlays, Titles, Special Effects • Super VHS Quality, PAL/NTSC Video Output

NEW LOWER PRICE!!

INCLUDES ADOBE PREMIER & FLYING FONTS PRO 3-D ANIMATION SOFTWARE!

$389⁹⁵



Hardware Highlights:
- Adjusts video filter
- Digital video encoder
- Supports all video formats
- Compatible with all graphics boards
- On-board Motion JPEG compressor

State-Of-The-Art Features:
- No generation loss
- Digital video back up
- Great transition effects
- Instant access to any frame
- Only One VCR for recording & playback
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Miro's DC1 Plus Video Capture Board Delivers Full Screen 640X480 Full Motion 30fps Video Output And Non Linear Audio & Video Editing To The Personal Computer At A Remarkable Price!

miroVIDEO DC20

BEST OF BYTE COMDEX/FALL'95

NEW LOWER PRICE!!

The Most Comprehensive Desktop Video Solution

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- Capture true 60 fields/sec., 640x480 S-Video Quality
- PCI interface can handle more than twice the throughput of ISA
- Hardware based variable rate, on-the-fly, real-time Motion JPEG compression (user definable from 5:1 to 100:1)
- S-Video out to tape, print to VHS, S-VHS, Video8 or Hi-8 video tape on either PAL or NTSC devices at 640X480, 60fields per second!
- Non-linear editing allows multiple edits with absolutely no loss of quality

Miro's DC20 Video Capture Board comes with Adobe Premiere LE, Photoshop LE and Asymetrix 3D F/X for incredible titles, transitions, creative special effects like fade, motion blur, emboss, mosaic, invert and 3D. Miro-optimized drivers accelerate Adobe Premiere 4.0 effects up to ten times faster! Two special miro-ASICs assure incredibly fast, optimized video editing.

$769⁹⁵

miroMOTION DC20 for Mac

NEW!

The Complete Digital Video Editing System for PCI Power Mac

- Real-time video digitization to hard disk
- Scans signals in 4:2:2 YUV
- Direct connect to S-VHS, Hi-8, Video8 & VHS
- Processes NTSC, PAL & SECAM (SECAM video in only)
- Motion-JPEG hardware-Compressor on-board
- Playback of digitized Motion-JPEG videos in NTSC or PAL full-format, up to 640X480 or 768X576 pixels, 16.7 million colors, with 30 or 25 frames per second
- Full S-Video quality with PCI bus
- Includes Adobe Premiere 4.x LE & Photoshop LE for professional looking titles, graphics & animation and editing.

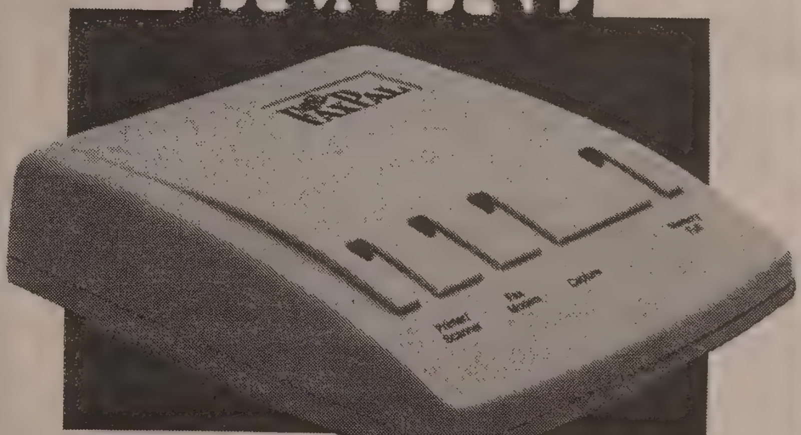
Miro's DC20 Video Capture Board comes with Adobe Premiere 4.x LE, Photoshop LE for incredible titles, transitions, creative special effects like fade, motion blur, emboss, mosaic, invert and 3D.

$769⁹⁵

ii InfoImaging
Technologies, Inc.

PC Fax
Answering Machine

3D FAXPAL



- **Recieves faxes while your PC is off by storing images in memory.**
- **Stores up to 15-20 pages of standard text in 512KB internal flash memory & can be upgraded to 2.5MB or 4.5MB (that's 180 pages). No internal fax/modem card required**
- **Works with portable computers so when you travel you can leave 3D FaxPal behind**
- **Does not need a fax machine, but if you have one, 3d FaxPal can utilize it as a printer or scanner**
- **Bonus-includes 3D FaxFile Basic software... the fast and easy way to compress and transmit files**

$129

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COMMUNICATIONS

Low Price Guarantee!*

FAX/MODEMS

MOTOROLA

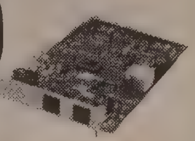
#1 Name In Communications

28.8Kbps Data/Fax Modem with voice & speakerphone

VoiceSURFR NEW! PC INTERNAL

- Telephone answering machine • Full duplex speakerphone
- Caller ID lets you identify caller before answering
- Phone number directory • Error Free Fax transmission
- Alphanumeric paging • Fax on Demand • Internet Survival Kit
- V.42bis & MNP 5 data compression provides up to 115.2Kbps
- Automatic Baud Rate adaptation adjusts for poor or noisy lines
- Full five year warranty

$149.95



28.8Kbps Data/Fax Modem

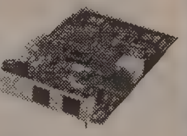
ModemSURFR NEW! PC INTERNAL

New Lower Prices!

- Caller ID lets you identify caller before answering
- V.42bis & MNP 5 data compression provides up to 115.2Kbps
- Automatic Baud Rate adaptation adjusts for poor or noisy lines
- Bundled with popular online software, children's educational CD-ROM & Hot, New Video Games for the entire family
- Full five year warranty

$119.95

PC EXTERNAL $134.95



External ISDN Terminal Adapter

Bitsurfr Pro

Windows 95® READY

BONDING FOR UP TO 128KBPS

• Multilink PPP provides 115.2Kbps asynch throughput & synch BONDING protocols offer 128Kbps • Supports 2 analog POTS PORTS • More than twice as fast as the fastest modem
• Access all Internet services at super speeds: over 70,000 bits per second every time • Acts like a modem, looks like a modem, sets up as easily as a modem... but connects at ISDN speeds
• Simultaneous voice & data on a single ISDN line • Download digital video clips, music, speeches, high resoultion color photographs from the World Wide Web & other Internet services • Send & receive massive data files fast: desktop publishing documents, spreadsheets, engineering data • Play interactive games without annoying delays • Everthing you need for ISDN - built-in NTI & ISDN line ordering codes • Works with AT compatible software

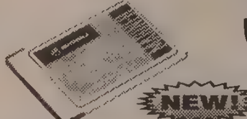
$359.95

MOTOROLA PCMCIA PRODUCTS

33.6Kbps PCMCIA FAX & LAN Card

Mariner

- 33.6Kbps, V.34
- High performance LAN access for 10Base-T or 10Base-2
- Connectivity to leading cellular phone & pagers
- Flash upgradeable
- "Installation Engine" for "Hassle-Free" install
- Simultaneous modem & LAN adapter use



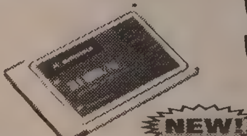
NEW!

$339.95

33.6Kbps PCMCIA FAX MODEM

Montana

- 33.6Kbps, V.34
- Connectivity to cellular phones
- Send & receive messages to/from Motorola Advisor pagers & the innovative two-way Tango pager
- Flash upgradeable
- "Installation Engine" for "Hassle-Free" install



NEW!

$265.95

NEW!

PROMISE TECHNOLOGY,INC.

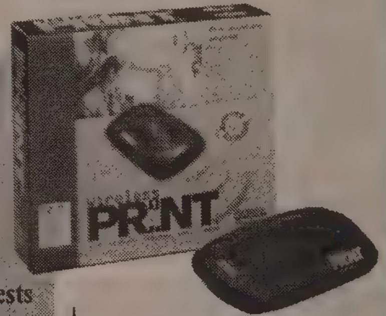
Make Your Office Printing Wireless!!

2.4GHz radio frequency transmits without interference!

wirelessPRINT™

The flexible printer sharing solution... anywhere... anytime!

WirelessPRINT is the most innovative printer sharing solution today! Users can print even if the network is down or people change PC/printer locations. Prints up to 125 feet indoors through walls or 400 feet unobstructed.



It's amazingly simple to use

- Route print jobs to 4 different printers
- Each printer can be shared by 32 users
- No additional drivers
- Manages simultaneous print requests

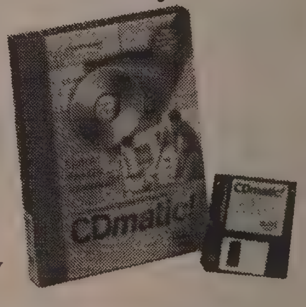
It's safe!

- Spread spectrum radio frequency, data encryption, can't be tapped.
- Built-in LRC error detection
- Password secure configuration

$289.95 wirelessPRINT starter kit (contains 1 PC/1 printer adapter)

Load & Play CDs... Automatically!

CD*matic*!



...the best way to automatically load and play your CD-based games, programs, video or audio. Better than Windows 95 autoplay, works with any CD title-- Windows, Windows 95 even DOS titles!* Just pop your CD in, CD*matic* software does the rest... fast! No more searching program groups. Free audio, PhotoCD™ players.

$19.95

* Must play under Windows.

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VISA MasterCard P.O.s DISCOVER American Express Card ATM

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PRINTERS

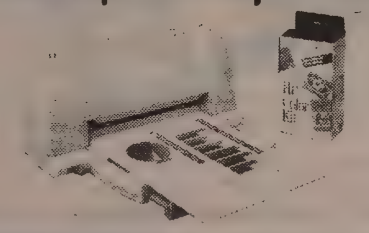
Low Price Guarantee!*

HEWLETT PACKARD

NEW!

Hewlett Packard Printers & Scanners for home & office

300X300dpi Color Inkjet Printer



DeskJet400

- Prints 3 ppm in black, 2-4ppm color,
- 600X300dpi black, 300X300dpi color
- HP's ColorSmart technology for vivid color at the touch of a button • Plain Paper, Labels, to 8.5X14, envelopes & transparencies • Drop-on-Demand Thermal Inkjet Printing
- 3¢ per page cost
- HP's REt technology
- Windows compatible

$199

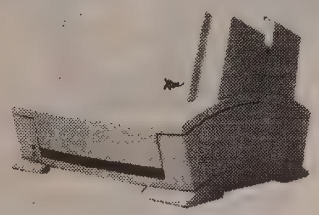
Color Inkjet Printer with Project Kit

DeskJet682C

- Prints 5ppm in black, 1.5ppm color,
- 600X300dpi black, 300X300dpi color
- HP's ColorSmart technology for vivid color at the touch of a button
- HP's Home Project Kit Includes:
  - Disney's Mickey & Friends Print Studio for creating cards, banners, calendars & more
  - Print Pak's Family Fun Kit for creating window art, etc.
  - Includes Hp banner paper, greeting card stock envelopes
- HP's PrintSmart
- Windows compatible

$299

600X600dpi Laser Printer



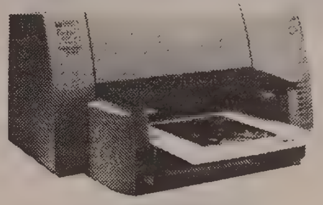
LaserJet5L Xtra

- Prints 4ppm at 600X600dpi
- Lowest cost of ownership, 1¢ per page print cost
- Handles a wide variety of paper, no special paper necessary fo excellent print quality
- Hp's REt technology & microfine toner
- HP's PrintSmart
- Windows compatible
- FREE SOTWARE including NetScape Navigator 2.0, HP FontSmart, Avery Label Pro & More

$429*

* After $50 Mfg. Mail-in Rebate
In-store price $479

Professional Color Inkjet Printer



DeskJet820Cse

- Prints 6.5ppm in black, up to 4ppm color
- HP's RealLife imaging system with C-Ret
- HP's ColorSmart technology for vivid color at the touch of a button
- HP's QuickStar for easy printer setup
- 150 sheet paper tray • Two-sided printing
- Paper types include business cards, labels & transparencies
- Microsoft Publisher CD for Windows 95
- Windows compatible
- 50 TrueType fonts
- 1 year warranty

$399

600X300dpi Portable Inkjet Printer

DeskJet340

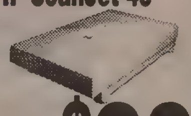
- 600X300dpi black
- Prints 3ppm in black, optional color kit
- Opptional HP Mac adapter, 60 page desktop sheet feeder, rechargeable battery, rapid recharger and carrying case
- Infrared adapter option for wireless printing
- Lightweight, fits in briefcase
- 1 year warranty

$299

SCANNERS

2400dpi Color Flatbed Scanner

HP ScanJet 4c



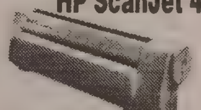
- 2400dpi enhanced, 600dpi optical
- Greater shadow detail with 30-bit color, 10-bit grayscale internal scanning
- Includes Caere OmniPage LE OCR with HP AccuPage technology, Corel PhotoPaint (PC) & Adobe Photoshop LE (Mac), Visioneer PaperPort e-mail & fax software

$899

400dpi Document Scanner

HP ScanJet 4s

- 400dpi enhanced, 200dpi optical
- Small enough to fit between your keyboard & monitor
- Visioneer PaperPort e-mail & fax software & integrated OCR software
- Lets you make copies at your desk
- Scans documents as small as business cards up to 8.5"X30"
- Automatic on/off, just feed documents in



$199

Other Quality Hewlett Packard Products

600X300dpi FAX, Copier & Printer

- Plain Paper • 600X300dpi • Up to 3 pages per minute • Compatible with Windows 95, 3.X & DOS

All-in-one

OfficeJet 300 .... **$499**

600X300dpi Scanner, FAX, Copier & Printer

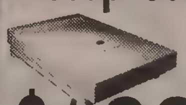
- 600X300dpi • Up to 3 pages per minute
- Compatible with Windows 95, 3.X & DOS

All-in-one

OfficeJet 350 • Scans at 300dpi, includes OCR software **$549**

1200dpi Color Flatbed Scanner

HP ScanJet 4p



- 1200dpi enhanced, 300dpi optical
- Single pass scanning at 256 grays & 16.7 million colors
- TWAIN/OLE support, Windows 3.11, Windows 95 & Mac support
- Includes HP's ScanJet Copy, HP PictureScan, HP AccuPage technology, & Visioneer PaperPort e-mail & fax software.

$499

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M15

MOTHERBOARDS, RAM, ETC.

Low Price Guarantee!*

NCA's High Quality PCI

PENTIUM™ 75-200MHz

PCI WITH 256K PIPELINE BURST CACHE

Intel 430FX Chipset

- 0K to 128MB EDO Memory or Fast Page-Mode Memory
- SMC 37665GT Super Multi-I/O Chip
- Intel 430FX Chipset
- 3 ISA & 3 PCI slots
- On-board PCI Bus Master IDE controller
- 256K Pipeline Burst Cache (Exp. 512K)
- One 2.88MB Floppy Port
- Two 16550 Fast UART Compatible Serial Ports
- One EPP, ECP parallel port
- ZIF Socket 7

CPU Sold seperately

$189^{95}

ASUS

NCA's High Quality PCI

DUAL PENTIUM™ 90-100MHz

TRITON PCI WITH 256K PIPELINE BURST CACHE

Neptune Chipset

- SMC 37665GT Super Multi-I/O Chip
- NEPTUNE Chipset
- 256K cache (Exp. to 512K)
- Uses 72-pin SIMMS
- 0MB EXP. TO 512MB
- AWARD BIOS
- Uses 72-pin SIMMS
- On-board ISA IDE Hard Drive Controller
- 4 ISA & 4 Bus Master capable PCI slots

On-board NCR SCSI BIOS firmware supports the optional SC-200 SCSI controller to connect up to 7 internal or external SCSI devices

CPU Sold seperately

$449^{95}

ASUS

NCA's High Quality PCI

PENTIUM™ 75-200MHz

MOTHERBOARD W/256K PIPELINE BURST CACHE

Triton II Chipset

- 0MB TO 128MB EDO MEMORY OR FAST PAGE-MODE MEMORY • INTEL 430FX PCI CHIP SET • SUPERMULTI I/O • INTEL 430FX CHIPSET • 3 ISA, 4 PCI SLOTS • ASUS PCI/MEDIABUS 2.0 • ON-BOARD PCI BUS MASTER IDE CONTROLLER SUPPORTS 4 IDE DEVICES ON TWO CHANNELS • 256K PIPELINE BURST CACHE (EXP TO 512K) • NCR SCSI BIOS • OPTIONAL IrDA & PS/2 MOUSE CONNECTOR

CPU Sold seperately

$199^{95}

ASUS

NCA's High Quality PCI

PENTIUM™ 75-133MHz

TRITON PCI, 256K PIPELINE BURST CACHE & SOUND ON-BOARD

Triton Chipset

- INTEGRATED Enhanced IDE-I/O
- TRITON Chipset
- 256K pipeline burst cache
- 0MB EXP. TO 128MB
- Integrated Vibra 16S Audio Controller
- Flash BIOS

CPU Sold seperately

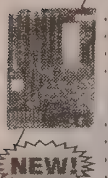
$249^{95}

Endeavor

Intel

PENTIUM™ 75-200MHz

PCI, 256K PIPELINE BURST CACHE, 1MB ATI VIDEO & SOUND ON-BOARD



NEW!

- CRYSTAL 4232 AUDIO CONTROLLER & YAMAHA OPL3 SYNTHESIZER
- ATI64CT PCI 1MB GRAPHICS CONTROLLER
- AMI BIOS IN FLASH MEMORY DEVICE
- SECONDARY CACHE MEMORY SOCKET
- SOCKET 7 2 PCI/IDE CHANNELS FOR HARD OR CD ROM DRIVES
- 3 PCI & 2 ISA SLOTS
- USES 72 PIN SIMMS
- 0MB TO 128MB
- 2 SERIAL & 1 EPP ECP PARALLEL PORTS

CPU Sold seperately

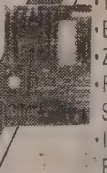
$349^{95}

Advantage/AS

NCA's High Quality PCI

PENTIUM 75-200MHZ PCI

TRITON MOTHERBOARD W/BUILT-IN 256K PIPELINE BURST CACHE



- 3-PCI SLOTS
- Triton chipset
- Built-in 256K CACHE
- ZIF SOCKET 7
- FOUR 72 PIN SIMM SLOTS
- INTEGRATED Enhanced IDE
- 0MB EXP. TO 128MB RAM

MPC-MB-PN5-256

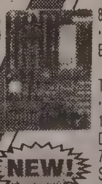
$139^{95}

CPU Sold seperately

NCA's High Quality PCI

PENTIUM 75-200MHZ PCI

TRITON MOTHERBOARD W/BUILT-IN 256K PIPELINE BURST CACHE



NEW!

- 3-PCI, 3-ISA SLOTS
- Intel PCI chipset 82437VX
- 256K PIPELINE BURST SIMM CACHE (EXP. TO 512K)
- ZIF SOCKET 7 • TWO 164 PIN DIMM SLOTS • FOUR 72 PIN SIMM SLOTS • INTEGRATED Enhanced IDE • 0MB EXP. TO 128MB RAM

CPU Sold seperately

$119^{95}

Hot 557

NCA's High Quality PCI

PENTIUM 75-200MHZ PCI

TRITON MOTHERBOARD W/BUILT-IN 256K PIPELINE BURST CACHE

- 3-PCI, 3-ISA SLOTS
- Intel PCI chipset 82437VX
- 256K PIPELINE BURST CACHE (EXP. TO 512K)
- ZIF SOCKET 7
- TWO 164 PIN DIMM SLOTS
- FOUR 72 PIN SIMM SLOTS
- INTEGRATED Enhanced IDE
- 0MB EXP. TO 128MB RAM

CPU Sold seperately

$129^{95}

Hot 555

NCA's High Quality PCI

486DX MOTHERBOARD

PCI Bus

ALI Chipset

CPU Sold seperately

- 3 PCI SLOTS
- USES 72 PIN SIMMS
- AWARD BIOS
- SUPPORTS DX4
- 256K CACHE
- 0MB EXP. TO 64MB RAM
- ZIF SOCKET
- UMC CHIPSET

$99^{95}

NCA's Premier/VLB

486DX MOTHERBOARD

VESA LOCAL BUS

OPTI Chipset

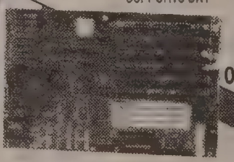
- 3 VESA LOCAL BUS SLOTS
- 256K CACHE
- 0MB EXP. TO 64MB RAM
- ZIF SOCKET
- OPTI CHIPSET
- USES 30 OR 72 PIN SIMMS
- AWARD BIOS
- SUPPORTS DX4

CPU Sold seperately

$99^{95}

128K CACHE - $89^{95}

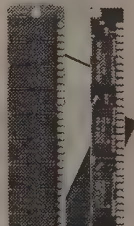
0K CACHE $59^{95}



CPUs AT THE LOWEST PRICES

$Call

LOWEST MEMORY PRICES



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Online Guide

Web Page Listings

continued from page 162

Laslo's WWW Site *http://www.netcom.com/~Laslof/* Home of Laslo's Web page design and computer consulting. [Exp. #158.]

Mastery, Inc. *http://www.masteryinc.com* Low cost Web pages with Internet Access. [Exp. #158.]

Mommadillo Enterprises *http://www.earthlink.net/~mommadillo* Specialists in telecommunications including BBS and Web pages. Homepages from $50 a year complete. [Exp. #156.]

My Yahoo *http://my.yahoo.com* Directly delivers a user's favorite WWW sites, news and content feeds from Yahoo's rich and comprehensive Internet guide. [Exp. #156.]

MZP Web Wizards *http://www.primenet.com/~mzpac* Copywriting, design, HTML programming, placement, listing, hosting, maintenance. [Exp. #156.]

Net Knowledge Internet Consulting *http://home.earthlink.net/~scedrone* We'll put your business into cyberspace with online marketing strategies. Fees based upon results. [Exp. #157.]

Network Intensive *http://www.ni.net* Internet service now available in over 3200 local calling areas. [Exp. #157.]

New World Revolution *http://www.nwrev.com* NWR creates Web sites for companies and organizations. Affordable, reliable, experienced, and professional. [Exp. #158.]

P-Net *http://www.p-net.com/* P-Net offers complete design, service, and support for your Web pages, including HTML coding, CGI scripting, and scanning. [Exp. #156.]

Premier Intermedia *http://www.premier-im.com/* Full service Web development and hosting. Quality Web sites at an affordable price. Specializing in small businesses. [Exp. #156.]

RSM Computers *http://home.earthlink.net/~rsmcmptr/index1.htm* Fast, friendly, knowledgeable computer service and Web page design for the entire Orange County area. [Exp. #156.]

ShopCart *http://www.shopcart.com/* Secure server shopping cart program: $35/mo., easy set-up, check out, and email confirmation. [Exp. #158.]

Smart Ad *http://smartad.com* We turn phone numbers into URLs. Businesses can inform users of their Web pages and their phone number in one fell swoop. [Exp. #156.]

smcNet *http://smcnet.com* Web publishing for the world! $1400 gets your company on the Web. No hidden charges. Stop by for more information. [Exp. #157.]

StartHere *http://starthere.com* Links to search engines, white and yellow pages, databases, directories. Fast and easy to use. [Exp. #157.]

Vividus Home Page *http://www.vividus.com* Home page for Vividus Corp., creators of Web Workshop, a Web page creator for kids. [Exp. #158.]

Whirlnet Communications *http://www.whirlnet.com* An Internet communications firm, creating and using Web sites to market products and services per customer specifications. [Exp. #157.]

WOLNET *http://wolnet.com* Complete Internet Service Providers [Exp. #158.]

SERVICES & PRODUCTS FOR SALE

Adventures In Thai Cooking And Travel *http://users.lanminds.com/~kasma* Kasma Loha-unchit's Thai cooking classes, tours to Thailand, and award-winning Thai cookbook. [Exp. #156.]

AirMiles Travel *http://www.air-miles.com* Book your travel through us and earn up to two free genuine frequent flyer miles per dollar. [Exp. #156.]

Arcanum Ranch Pottery *http://northcoast.com/~arcanum* Beautiful handmade pottery with classic glazes available at the Studio in Northern California. [Exp. #158.]

Argonaut Systems *http://www.geocities.com/SiliconValley/Park/3165* Automating sales—using computers in an organization's sales function should be a planned operation. [Exp. #158.]

Armchair World *http://www.armchair.com* A metaphor for exploration on the Internet. Travel, touring, cuisine, personal growth, history, and futurism. [Exp. #157.]

Asante' Health Center *http://www.punawelewele.com/asante/* Asante' Health Center, in Los Gatos, specializes in massage, acupuncture, and chiropractic. [Exp. #158.]

Bev 'n' Bern Coffee Co. *http://www.bevnbern.com* The best coffees from the best roasters. Full line Coffee House completely on the Web. [Exp. #157.]

Bicycle Motors *http://www.bicyclemotors.com* Transform your 26" adult cruiser into a super commuter in one hour with the MX-5 Bicycle Motor. [Exp. #158.]

BigBook *http://home.bigbook.com:9000/* Location of BigBook 3D, an online application creating replicas of major cities and linking them to a comprehensive Yellow Pages database. [Exp. #157.]

BioFitness Systems *http://www.biofitness.com* New Web site for creating personalized professional-quality workout plans that are generated and delivered while the user is online. [Exp. #156.]

Bowater Incorporated *http://www.bowater.com* Financial data, company news, business and product descriptions, as well as environmental and forestry facts. [Exp. #157.]

Case Logic *http://www.caselogic.com* Entire Case Logic line is available for customers to browse. Updated monthly. [Exp. #157.]

CD Movies Plus MPEG *http://www.cdmovies.com/* Worldwide VideoCD/MPEG catalog: movies, music videos, kids, sports, and adult. Also the latest and greatest in entertainment technology. [Exp. #156.]

Critical Mass Multimedia *http://www.cmassmedia.*

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720CDT P/133, PCI 16/1.2GB, CD, 10244x768 ....IN STOCK
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110CT P/100, 8/810, 11.3" TFT........CALL

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TP 760EL P/100, 8/810, 11.3" DS........$3169
760ED P/133, 16/1GB, CD........CALL

365 SERIES
TP 365X P/100, 8/810, 10.4" DS $1969
TP 365X P/100, 8/810, TFT........$2359

560 SERIES
TP560 P/100 8/810, 11.3" DS......IN STOCK
TP560 P/120, 8/810, 12.1" TFT........$3550
TP560 P/133, 8/1.08 TFT........IN STOCK

COMPAQ

LTE SERIES
5250 P/120, 16/810 TFT $3649
5280 P/120 16/1.3GB, TFT........CALL
5300 P/133 16/1.3, 12" SVGA TFT ......CALL
5380 P/133, 16/2.1, 12.1" 1024x768 TFT ....CALL

ARMADA SERIES
4110 P/100 8/810, DS ....CALL
4110D P/100 8/810/CD, DS ....CALL
4120 P/120, 8/1.08, DS ....CALL
4120T P/120, 8/810, TFT........CALL
4130T P/133, 8/1.08, TFT ....CALL

NEC AST COMPUTER
MODELS AVAILABLE

PRINTERS

HEWLETT PACKARD
HP DeskJet 680C........$299
HP DeskJet 820CXI/870CXI........$379/479
HP DeskJet 1600C/1600CM ..$1269/1839
HP LaserJet 5P/5MP $799/949
HP LaserJet 4V/4MV........$1859/2659
HP LaserJet 5SI/5SIMX........$2629/3649
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HP LaserJet 4+/4M+ $1095/1479
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HP DesignJet 750C ....CALL
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OKIDATA
Okidata ML 320, 9 Pin, Narrow $319
Okidata ML 321, 9 Pin, Wide $439
Okidata ML 590, 24 Pin, Narrow $469
Okidata ML 591, 24 Pin, Wide $589
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Apple
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DeskPro 4000 Series ..CALL
DeskPro 6000 Series ..CALL
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1500 P/166 32/0HD, CD ....CALL
Proliant Pentium' Pro 5000 Series ....CALL

HEWLETT PACKARD
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Vectra 515 Midtower Series 5/100, 5/133, 5/166..CALL
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Web Page Listings *continued...*

com Creative and production services for multimedia presentations, Web sites, trade show graphics, slides, overheads, and small format color prints. [Exp. #157.]

Cybercard Limited *http://www.cybercard.co.uk/* Design your own greeting card on your home computer via the Internet and then have them printed to order using digital offset color. [Exp. #156.]

DB Publications Online *http://www.dbpublications.com* High-tech printing and packaging for the software and hardware industry. [Exp. #158.]

Dewaniah Free Trade Postings *http://www.teleport.com/~iexportc/dewaniah.html* Direct free access to daily updated international trade postings in many categories. [Exp. #156.]

Discmakers *http://www.discmakers.com* The #1 independent audio manufacturer in the country. Check our extensive online mastering resources. [Exp. #157.]

Ferguson Consulting *http://www.datadepot.com/~ferguson/index.html* Specializing in networking, programming, accounting, Windows, Novell, UNIX, FoxPro, Mas90, Web pages, C, BBX, and custom projects. [Exp. #158.]

Finepens *http://www.qualitypens.com* Finepens offers Cross, Mont Blanc, Parker, Waterman, and other fine pens at discount prices everyday. [Exp. #156.]

Gallery Of Cats *http://www.dreamtek.com/gallery-of-cats* An online catalog of unique gifts and collectibles for cat lovers and people who love cat lovers. [Exp. #157.]

Gold Bug Historic Map Reproductions *http://www.goldbug.com* Hard copy reproductions of old maps. Publishers of AniMap and SiteFinder historical atlas software. [Exp. #157.]

Graphic Expressions *http://home.earthlink.net/~promo77/* Imprinted promotional products, cups, caps, key chains, pens, and more. Free samples offered. Internet services. [Exp. #156.]

Haversack *http://www.haversack.com* Haversack—the perfect sport solution, a backpack for the necessities, lunch, first aid, etc. [Exp. #158.]

Highglow Jewelers *http://www.highglow.com/* Shop using the Virtual Showcase. Customized shopping, in which viewers can specify what they are interested in and then view a customized selection the next day. [Exp. #156.]

Import Motorsports Online! *http://www.premierim.com/importmotors/* The world of import motorsports is now on the Internet! Tuning primer, events info, shop directory, photos, classifieds, and more. [Exp. #156.]

The Internet Chamber Of Commerce *http://www.internet-chamber.com* Dedicated to promoting the growth of electronic commerce and offering many benefits to its members. [Exp. #157.]

Internet Travel Network *http://www.itn.net* Online travel reservation service. Comprehensive services for booking car and hotel reservations online. [Exp. #156.]

Jim Zook—Illustrator & Graphic Designer *http://www.jimzook.com* Web graphics and designs, ads, brochures, corporate reports, etc. Available for parties, weddings, and bar mitzvahs. [Exp. #157.]

Klopper Investigations *http://www.globaldomain.com/klopperpi* Full service investigative firm offering nationwide computer public records research, criminal and civil investigations, and other related investigative research. [Exp. #158.]

LACIS *http://www.lacis.com* LACIS supplies books, tools, threads, and fabrics for the textile arts, millinery, conservation, and more. [Exp. #158.]

Le Mitt *http://www.lemitt.com* Manufacturer of a unique temperature-regulated therapeutic mitt designed for sufferers of carpal tunnel, arthritis, and sports injuries. [Exp. #157.]

List Store *http://www.liststore.com* Order consumer mailing lists online from Donnelley Marketing, Inc. [Exp. #158.]

MDSystems.com *http://mdsystmes.com/index.htm* Photographs on t-shirts, Web page development, business services, and more. [Exp. #158.]

Med Web *http://www.medxchange.com* The most complete medical equipment Web site on the Net with over 26,000 visitors/month. [Exp. #157.]

MLM Money *http://www.mlmmoney.com* Make real MLM money! Bob and Denise Armstrong have done it. Accelerated recruiting technique, best market plan, hot products. [Exp. #156.]

Mr. Martin Garage Doors *http://www.datadepot.com/~ferguson/martin/index.html* Martin garage door dealer of Southern California offering "The World's finest, safest doors." [Exp. #158.]

O'Brien & Gere Co. *http://www.obg.com* Full-service engineering consulting firm with capabilities in construction management, lab analysis, contract operations, and manufacturing. [Exp. #157.]

Online Camera Exchange *http://www.cameraexchange.com* A searchable database for used photographic, video, motion picture, and mini-lab equipment. [Exp. #158.]

Ostriches Online *http://www.achiever.com/ostrich/index.html* Ostrich farming assistance. Comprehensive farming seminars, import and export programs, training programs, and all aspects of animal husbandry care. [Exp. #156.]

Pacific Bell *http://www.pacbell.com* [Exp. #157.]

Patenting Services *http://PatentingServices.com* Patenting services offered by Jack Lo, licensed patent agent. Experienced, reliable, ethical, affordable. [Exp. #156.]

Perea Enterprises Video And CD-ROM *http://www.totalmarketing.com/pereaent* Shop directly from our online catalog featuring over seven thousand instructional videos and CD-ROMs. [Exp. #158.]

Pete Conder And Friends *http://www.scruz.net/~saconder/* Information about Pete Conder and Friends fine jewelry, specializing in 14k gold and silver. [Exp. #158.]

Places To Stay *http://www.placestostay.com* Internet-based reservation service exclusively designed to provide a direct interactive link between travelers and fine hotels, inns, and resorts. [Exp. #157.]

Plaza Dental *http://www.plazadental.com* Online magazines, patient information library, meet our dentists, make appointments online. [Exp. #158.]

Posie Peddler Florist *http://home.earthlink.net/~samson/posie.htm* Specialty roses, fruit and gourmet baskets, balloons, tropicals, exotics, worldwide delivery. Charge by phone. [Exp. #157.]

Shane-Paul Companies *http://www.versanet.net/shanepaul* Marketing consultant firm. Federal purchasing programs. Guaranteed access: government/ Fortune 500 contracts. [Exp. #156.]

SongLink International *http://www.webcom.com/genoagrp/songlink/* The number 1 industry resource for music publishers and songwriters. [Exp. #157.]

Sunshine International Penpals *http://sunshinegirls.com/* Asian women desire romance, marriage. World's largest correspondence service since 1984. Free photo brochure. [Exp. #156.]

The Translators and Interpreters Guild *http://ourworld.compuserve.com/homepages/TTIG* Free referrals to the nation's best translators and interpreters. [Exp. #157.]

Trudean *http://www.trudean.com* Avoid crowded malls—holiday, gift, and personal shopping online. [Exp. #158.]

Tubz Custom Whirlpool Bathtubs *http://www.opendoor.com/Tubz/TubzHmPage.html* Largest and best whirlpool bathtub showroom on the West Coast. [Exp. #158.]

VINalert *http://ourworld.compuserve.com/homepages.vinalert* Vehicle history report—historical odometer data is available for most vehicles on the road in California. [Exp. #158.]

Virgin Megastores *http://www.virginusa.com* Music, movies, multimedia, graphic novels, and more. [Exp. #156.]

FINANCIAL/REAL ESTATE SERVICES

Auto/BrokerNet *http://www.autobroker.net* Buy or sell classic, exotic, race vehicles and real estate worldwide. Free unlimited access, FTP & Internet email. [Exp. #157.]

Bay Area New Realty Solutions *http://www.newrealty.com* Searchable listings with photos; each with calculated monthly payments & qualifying incomes for different down payments. [Exp. #157.]

Business Funding Services, Inc. *http://www.businessfinance.com* A business capital search engine that is 100% free to entrepreneurs. [Exp. #156.]

Consumer Credit Counseling Service Of The East Bay *http://www.cccsebay.org* A nonprofit organization dedicated to helping your help yourself regain control of your finances. [Exp. #158.]

Discovery Funding Company *http://www.globaldomain.com/ddl* We offer loans for real estate and other business investments. [Exp. #158.]

Guess The Dow Contest *http://home.earthlink.net/~bill-la/* Famous Dow contest lets you predict what's going to happen on Wall Street. Enter now. [Exp. #158.]

HomeScout *http://homescout.com/* 300,000 homes for sale, 122 real estate sites, search capabilities, mortgages, furnishings, and more. [Exp. #158.]

Internet Fund *http://www.Internetfund.com* The Internet Mutual Fund, a no-load, performance-based fun, aimed at investors looking for opportunities to invest in the future of the Internet. [Exp. #158.]

Manhattan Analytics, Inc. *http://www.manhattanlink.com* The mutual fund investors' home page. Features trading systems, fund manager interviews, newsletters, and reference. [Exp. #156.]

Mortgage-Net *http://www.mortgage-net.com* National lender database for purchase, refinance, and home equity loans. Features calculators, interest rate trends. [Exp. #157.]

Myers Equity Express *http://www.myer.com/mortgage* Low mortgage rates for purchase, refinance. Money Magazine rates us as a leading borrowing deal. [Exp. #157.]

Myers Internet Services *http://www.myer.com/mis*

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Megamedia provides you with the following features plus FREE software (PC) and customer support. You get unlimited SLIP or PPP connection with NO hourly connect or usage charges to the Internet. Shell Access Included! $20/month is all you will pay for FULL UNLIMITED Internet access.

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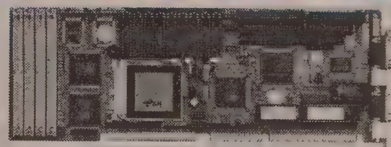

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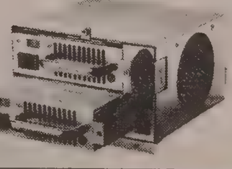

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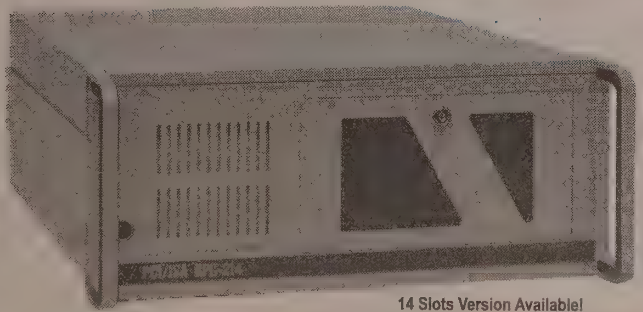

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4 ISA Slots
8 PCI/ISA Slots
14 PCI/ISA Slots
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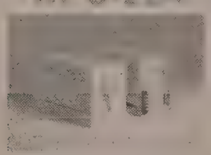
Industrial 4/6/8 Slots Node IPC Chassis

RPC-204



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Web Page Listings *continued...*

The one stop shop to get your business up and running on the Internet. [Exp. #157.]

The Noble Internet Directory *http://www.experts.com* Investment expertise free online. [Exp. #158.]

Passport *http://www.ipassport.com* The first anonymous "bankless" universal micro-payment system on the net. [Exp. #156.]

Property-Link *http://www.property-link.com* Listing service for real estate professionals. [Exp. #156.]

Quantadyne Corporation *http://www.quantadyne.com* We take fuel and turn it into electricity with no moving parts! Going public (IPO) soon. [Exp. #156.]

REdirect *http://www.iuma.com/RDI/redirect* An information site for commercial real estate professionals with databases of financing and equity sources. [Exp. #158.]

WebIPO *http://www.webipo.com* Information for companies that want to go public. Articles covering the components of an IPO, such as federal and state regulations, the costs, the players, the advantages and disadvantages. [Exp. #156.]

World Wide Travel Exchange *http://wwte.com* Full-page advertisement of vacation and resort properties for rent or exchange world wide. [Exp. #156.]

LEGAL SERVICES

Association for California Tort Reform *http://www.actr.com/actr/* The latest information on legal reform, summary of Supreme Court decisions, ACTR's amicus briefs in selected cases, and more. [Exp. #158.]

John R Kahn's Home Page *http://members.tripod.com/~jkahn/index.html* Attorney handling Computer, Bankruptcy, and Real Estate law, and transactional matters in San Jose, CA. [Exp. #158.]

Richard J. Greenstone, Attorney at Law *http://www.rjg.com/rjg* Copyright, trademark, licensing, business, and transactional law for the computer, entertainment, and publishing industries. [Exp. #157.]

Weiss & Weissman, Inc. *http://www.wwlaw.com* San Francisco Area Law Firm specializing in estate planning, tax, and real estate law for sellers, buyers, and for sale by owner. [Exp. #158.]

EMPLOYMENT/ EDUCATION

Altos Education Network *http://www.altosnet.com* The first totally Web-based education for entrepreneurs on the Web. [Exp. #158.]

Applications, Resumes, & Interviews *http://home.aol.com/ltstoy* Learn how to compete for better jobs and earn more income. [Exp. #156.]

Artists' Gal'ry *http://www.globalpac.com/umpsm/* Online magazine of photos/resumes of actors, actresses, singers & musicians. Also included: casting info, audio/video clips and articles. [Exp. #156.]

Association for Better Living and Education *http://www.able.org* Organization with more than thirty years of public service in the fields of drug education, drug rehabilitation, educational programs, and other social betterment activity. [Exp. #156.]

CareerSite *http://www.careersite.com* Sophisticated agent search and retrieval facility, which helps experienced as well as newly graduated job seekers find employment opportunities easily, efficiently, and confidentially. [Exp. #156.]

Computer College Silicon Valley *http://www.portal.com/~ccsv/ccsv.html* Internet and HTML training specialists. [Exp. #158.]

The Exploratorium *http://www.exploratorium.edu* Hear the squawk of a duck be transformed into human vowel sounds, learn about mutant fireflies, and more. Digital dopplegangers of our popular hands-on exhibits. [Exp. #156.]

Helping Hand Services *http://www.moneyfinder.com* Guaranteed college financial aid. Higher education and career consulting. Scholarships, fellowships, grants, loans. [Exp. #158.]

Human Resource Store *http://www.mcs.com/~jmruh* Offers executive job sources, employer recruitment, out placement, and other full service human resource outsourcing. [Exp. #158.]

The Instant MLM Placement Program *http://www.mlmbbs.com/instamlm.htm* Fantastic opportunities. Huge potential! We help you build your downline. Results can be astronomical! [Exp. #156.]

Learning Tree International *http://www.learningtree.com* Learning Tree International's guide to over 100 information technology courses. [Exp. #156.]

Penn State LionCam *http://www.ur.psu.edu/cam/lioncam.html* Every two minutes, pictures are taken of the University's main administration building and are posted to the Web. [Exp. #156.]

Resume-Net *http://www.resume-net.com/* Silicon Valley computer industry resume service. Free to employers. First month free to job seekers. [Exp. #158.]

Southern California Jobs *http://www.thomasstaffing.com/jobs.htm* Updated job listings for the Southern California area. [Exp. #158.]

Unique Part Time Jobs *http://members.gnn.com/researchpub/respub.htm* Your complete source of fun, interesting, and lucrative spare-time jobs. [Exp. #158.]

ORGANIZATIONS/ PUBLICATIONS

Act Now For Health And Wealth *http://www.liberty.com/home/actnow/* Through natural nutritional products you can have the opportunity "To enrich the quality of people's lives." [Exp. #156.]

American Society Of Safety Engineers: Greater San Jose Chapter *http://www.best.com/~assegsjc* Information on the society and local chapter, meetings, and educational opportunities. [Exp. #158.]

Apparel News *http://www.apparelnews.net* [Exp. #158.]

The Bahá'í Faith *http://www.bahai.org* A wealth of information about this 153-year-old religion, its teachings, and the activities of its followers. [Exp. #157.]

The BBS Corner *http://www.vni.net/thedirectory/* Devoted to Bulletin Board and online users and sysops. [Exp. #158.]

Bits And Pieces *http:/www.ryzome.com/bits.htm* An e-zine of young writing and art. It's your world, send it to us! [Exp. #158.]

Black Hollywood Reports *http://home.earthlink.net/~btn/* Weekly news and information service for African Americans in the entertainment industry. [Exp. #158.]

Bungalow News Home Page *http://www.bungalownews.com* One of LA's largest and most complete newsstands. [Exp. #158.]

Bust'em *http://www.isbc.com/* Business complaint log which allows the Internet community to file complaints (Book'em) against disreputable companies doing business on the Internet. [Exp. #156.]

Center For Systems Management *http://www.csm.com/* Useful information for Project Managers and Systems Engineers. [Exp. #158.]

Choice In Dying *http://www.choices.org* A national, non-profit organization devoted to end-of-life decision-making issues. Site features state-specific downloadable advance directives. [Exp. #156.]

Club URL *http://www.loop.com/~auglb* Amiga Users Group of Long Beach, CA. [Exp. #158.]

CultureWatch Online *http://www.igc.apc.org/culturewatch* Monthly annotated bibliography which monitors the religious right's political agenda and strategy. [Exp. #157.]

DharmaNet International *http://www.dharmanet.org* Central clearinghouse for Buddhist resources worldwide. [Exp. #158.]

Dictionary Of PC Hardware And Data Communications Terms *http://www.ora.com/reference/dictionary* Publisher O'Reilly & Associates create a freely available online version of this helpful book. [Exp. #158.]

Financial Women International *http://www.fwi.org* Includes information about the association, membership, conferences, Leadership Forums, position statements. career management articles, and more. [Exp. #158.]

GerMedi@ *http://germedia.de* News to use from Germany. [Exp. #158.]

GNOCP *http://www.thatsentprod.com/~teirnet/gnocp* The Global Network Of Creative Producers. Directory for groups and individuals planning special events. [Exp. #156.]

Guy Kawasaki's EvangeList *http://www.zdnet.com/macuser/macway/* Apple Fellow Guy Kawasaki has created a mailing list called "EvangeList," a place where Mac users can share stories and information about the platform, the industry, the state of mind that is Macintosh. [Exp. #156.]

Interactive Media *http://www.sirius.com/~future/Media/imedia/menu.html* Interactive Internet 'zine. All articles are incomplete—or ongoing. Readers can direct the emphasis and depth of all reports. [Exp. #156.]

Islamic Center Of Sacramento *http://users.aol.com/hineaf/index.htm* Find information on Islam and Muslims. [Exp. #158.]

Jubilee 2000 Project *http://www.jubilee2000.org* Virtual global society created to demonstrate the superiority of cooperation over competition as a guiding social principal. [Exp. #156.]

Korean Books At U.C.B. *http://www.lib.berkeley.edu/EAL/ealk2.html* In both English and Korean, this online catalog offers a list of references and special collections at the East Asian Library. [Exp. #158.]

Lambda Phi Epsilon, UCLA *http://www.premier-im.com/lambdas/alpha/* First and only national Asian-American fraternity, UCLA chapter. Includes rush information, pictures, message/chat board, and more. [Exp. #156.]

Lavender Pages *http://www.lavenderpages.com/* The Lavender Pages, a premier business directory for the lesbian, gay, and bisexual community, celebrates the launch of the publication on the Web. [Exp. #156.]

Macy's Weddingline *http://www.macysbridal.com* Online access to 20,000 bridal registry listings from Macy's 160-plus stores nationwide is available at no charge. Also includes Macy's online bridal magazine. [Exp. #156.]

Microwave News *http://www.microwave.news.com* Information on health effects of electromagnetic fields. [Exp. #158.]

National Center For Employee Ownership *http://www.nceo.org/* Information about employee stock ownership plans (ESOPs) and other forms of employee ownership. [Exp. #158.]

News Of The Day (In Haiku) *http://www.newsoftheday.com* News summaries on the Web. [Exp. #158.]

OCLUG *http://chaos.fullerton.edu/oc_lug.html* Orange County Linux Users Group. [Exp. #158.]

Online World *http://www.onlineinc.com/olworld* Online World Conference & Expo registration information. Schedule of events, speakers, and exhibitions. [Exp. #156.]

Orange County NetWare Users Group *http://www.computerquest.com/cns/ocnet/* Web site that lists meeting topics, dates, and membership info. [Exp. #157.]

The Probe *http://www.theprobe.com/* Business to business network publication. Great offers on products and services. [Exp. #158.]

Sacbee.com *http://www.sacbee.com* News stories, columns, editorials, and classified ads from each daily edition of the Sacramento Bee. [Exp. #156.]

Salon *http://www.salon1999.com/* Webzine of books, arts, and ideas. [Exp. #158.]

SciWeb *http://sciweb.com* Information and communication repository for life science professionals in biology, biotechnology, pharmaceuticals, medical diagnostics, and health care. [Exp. #156.]

Sequoia High School Alumni Association Online *http://www.belmont.gov/orgs/alumni/* Alumni information for three SF Peninsula high schools: Sequoia, San Carlos, and Ravenswood. [Exp. #158.]

SFBayArea.com *http://*

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Web Page Listings *continued…*

www.SFBayArea.com/ Your source for the San Francisco Bay Area. [Exp. #157.]

Shared Heart Home Page *http://www2.cruzio.com/~sharedhf* The Shared Heart Foundation is a non-profit organization dedicated to the healing of relationships. [Exp. #158.]

SignOn San Diego *http://www.uniontrib.com* Electronic versions of the San Diego Union-Tribune available online. [Exp. #156.]

Smithsonian Magazine *http://www.smithsonianmag.si.edu* The magazine is on the Web with the addition of unique features such as keyword searching of past stories, an image gallery, plus audio and video. [Exp. #156.]

SOS/Secular Organizations for Sobriety/Save Our Selves *http://www.hooked.net/~unhooked* Local home page of Bay Area chapter of SOS. Nonreligious support groups for people recovering from alcohol or drug problems. [Exp. #157.]

Sportfit.com *http://www.sportfit.com* Fitness on the Web! Leading-edge tips and techniques and more. Updated regularly. [Exp. #156.]

StarCenter Advanced Galactic Astrology *http://www.starcenter.com/* A new astrology, using the heliocentric chart of conception. Free daily updates. [Exp. #158.]

StelNet Italy *http://stelnet.com/* One of the most comprehensive Internet resources about Italy: business, arts, food, tourism, and much more. [Exp. #156.]

Universal Life Minister *http://www.ulc.org/ulc/ordain.html* Become Universal Life Minister on the Web. [Exp. #156.]

The Unrecables *http://home.earthlink.net/~unrecables/* A community-based organization serving people with disabilities with sports and recreational opportunities. [Exp. #158.]

Utility Workers Union Of America *http://thegrid.net/local132* Utility Workers Union of America, Local 132. Labor Union for Southern California Gas Company. [Exp. #156.]

VFW Post 1663, Sunnyvale CA *http://www.nichecom.com/~vfw/* Ccomradeship, patriotism, and community service. [Exp. #158.]

Walnut Creek Church Of Christ *http://www.netcom.com/~khensley/wcc.html* [Exp. #158.]

Windows OnLine *http://www.cris.com/wol/* Home of Windows OnLine (BBS), which publishes the WinOnLine Review (online magazine)—commercial and shareware reviews. [Exp. #158.]

ODDS & ENDS

Advanced Herbal Alternatives *http://www.earthlink.net/~fchan* Chinese herbs formulated for overall health and wellness. [Exp. #158.]

Creative Concepts *http://home.earthlink.net/~hoabut/* Information on projects, games, business, links, etc. Includes the Automated Graffiti Removal Robot. [Exp. #156.]

Global Match *http://www.globalmatch.com* Worldwide matchmaking service for single professionals. FREE 30-day trial membership—win a free Caribbean cruise! [Exp. #157.]

Global Network Project For The Future *http://www.nexsite.nttdata.jp/media/* An experimental global network project for communication and collaboration. [Exp. #158.]

Lycos Road Map *http://www.proximus.com/lycos/* Online maps for the entire US. Type in a street address, and it will draw a map and put a red "X" on the spot. [Exp. #156.]

MiNat *http://www.nichecom.com/~minat/* Russian/worldwide penpals for friendship and marriage. [Exp. #158.]

Miracle Marketing *http://www.accesscom.com/~seekers* Look here for the best in free products and advertising. [Exp. #158.]

Plastic Surgery Resident Home Page *http://users.aol.com/jdisaia* Information for cosmetic surgery from Abdominoplasty to Rhytidectomy. [Exp. #158.]

Public Awareness *http://www.webz.com/stress* To alert new and old users of computers of the risks involved. [Exp. #158.]

Town & Country's Bridal Web Site *http://tncweddings. com* The online resource for planning the perfect wedding, including honeymoon, gift ideas, bridal fashion, jewelry, advice, horoscopes, and more. [Exp. #158.]

TravelWeb *http://www.travelweb.com* Online hotel reservation system and Internet site for book-it-yourself travelers, providing direct booking access to over 6000 and 1.7 million rooms worldwide. [Exp. #156.]

PERSONAL HOME PAGES

ABC Flash *http://www.abcflash.com* Extensive Asian American resource page with the latest events, exclusive articles, links, and discounts. [Exp. #158.]

Alternative to the 40-40 Plan *http://www.hbn@hbn.com/ubfree* [Exp. #156.]

Bantha Fodder *http://www.themall.net/~diamond2* Info on Star Wars movies and collecting, as well as PC Gaming, Entertainment, and much more. [Exp. #157.]

Bichon Frise—Live Stuffed Toy *http://www.netcom.com/~jasheehy/bichon.html* The cuddly white dog with the adorable personality. [Exp. #156.]

Brazilian Magic *http://home.sprynet.com/sprynet/damor* Images of Brazil seen through the eyes of a non-Brazilian. [Exp. #156.]

Cafe Creossote *http://www.cafecreosote* All inclusive food site featuring recipes, nutritional information, farmer's markets, and food-related reviews. [Exp. #158.]

Chichlid Research Home Page *http://garnet.berkeley.edu:2727* Information on the fish family Chichlidaé for hobbyists and scientists [Exp. #157.]

Destruction Garden *http://www.inland.net/~jpreece* Info, photos, and great links for those who enjoy breaking things! Always being updated. [Exp. #156.]

Dr. Chris, Professional Therapist! *http://users.deltanet.com/~mundale* A lighthearted but informative source of information and advice about parenting, relationships, and other issues. [Exp. #156.]

Eddie Foronda's Cool Web Site *http://www.netgallery.com/~eforonda/* A freelance journalist, photographer, and publicist. See samples here. [Exp. #156.]

Electronic Business Directory *http://www.gate1jtc.com* Web site links to enable everyone to access business information on the Net. [Exp. #158.]

ForeignCurrency *http://ourworld.compuserve.com/homepages/breezeiii* Foreign currency transfers at excellent exchange rates. Have exchange rates dating to 1970. [Exp. #158.]

Frederick Hahne's Home Page *http://www.well.com/user/really* [Exp. #157.]

Game Cracking Computer Hacking Web Page *http://www.earthlink.net/~laszlosfam* Riddles, games, shareware, cracks, cheats, hacks, ads, jokes, and links. [Exp. #158.]

Goofy Gary's Home Page *http://www.geocities.com/hollywood/8888* Sixteen year old male—learn a few things about me. [Exp. #158.]

Harold Valenzuela's Home page *http://ourworld.compuserve.com/homepages/haroldo/* General Web surfing page with links to military and local Web sites. [Exp. #158.]

Highland Home Page *http://users.deltanet.com/~hilander* Information on Scottish Highland games and resources for highland athletes, also some geography. [Exp. #158.]

Home Business Software *http://www.loop.com/!landmark1/network.htm* Download free software. Find out how you can have cable premium channels free of charge. [Exp. #158.]

Huascape Online *http://www.netswired.com/hua* The Web site you have been waiting for—free stuff, movies, shareware, cool links, and more. [Exp. #158.]

IMHO *http://www.nwlink.com/~jacobs29/IMHO* One man's struggle to cope with his existence and the latest software on the market. [Exp. #158.]

Joe Lavin's Humor Column *http://www.sure.net/~joelavin* No Star Trek jokes. Just original comedy every Tuesday and Friday. [Exp. #158.]

The John Gotti Tribute Page *http://www.netgate.net/~ravenna/gotti.html* Alleged Mafia boss, but all-around nice guy. [Exp. #156.]

Juggling Library *http://www.tstonramp.com/~wilkins/* Juggling research library with special collections on juggling rubber stamps. Info. on 50th Festival of International Jugglers Assoc. [Exp. #158.]

KriziaWeb *http://www.krizia.com* General interest tools and information with a focus on traumatic brain injury. [Exp. #158.]

Lawrence Goetz *http://pages.prodigy.com/VDJW65A* Shareware children's games for Windows. Most are games, some are educational. Also, links to sites for children. [Exp. #157.]

Lee Goldstein *http://ourworld.compuserve.com:80/homepages/LEEGOLDSTEIN/* An eclectic site with a surf theme. Links to surfing, weather, software, HTML authoring, law and other interesting sites. [Exp. #156.]

Links to Free Software *http://www.netcom.com/~adult/freesoft.html* Links to free download sites. All the latest PC and Mac Internet technologies. [Exp. #156.]

Medical Helminthology *http://www.hooked.net/~fredarfa* Information on parasites that infect more than 140 million of the world's population. For medical students and professionals. [Exp. #158.]

Michael Stehly's Home Page *http://home.earthlink.net/~mikcar/* Spanish Web page. When you click on a picture, you hear the Spanish word. [Exp. #157.]

Mike Mueller Home Page *http://www.westworld.com/index.html* Mike Mueller is a Geology major at Cal State Los Angeles. [Exp. #158.]

Mike's Home Page Disaster *http://www.geocities.com/Colosseum/2534* [Exp. #158.]

Mis-Magic's House *http://www/primenet.com/~jeffing/* When the lights dim and the air grows cold, you're in Mis-Magic's House. [Exp. #158.]

Nasir's Home Page *http://www.geocities.com/Hollywood/5126* An ID4 fan site

List Your Web Page

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Web Page Listings *continued...*

with info and links to all the ID4 material you need! [Exp. #157.]

Norm's Nexux *http://members.gnn.com/nlim/setup.html* Hong Kong pop stars, 007, HTML authoring, links, alternative music, X-Files guide, photos, and more. [Exp. #158.]

Photographers List *http://members.aol.com/SonofaB754/photogLIST.htm* A comprehensive list of photographer's home pages. [Exp. #158.]

Randy's Home *http://members.aol.com/RLNash/home.htm* Come visit my home. New links as well. [Exp. #158.]

Refrigerium Web Site *http://www.hooked.net/~bless/* An entry point for useful Early Christian resources on the Internet. [Exp. #158.]

Road Warrior's Web Page *http://ourworld.compuserve.com/homepages/D-Nutter* Many links to music, politics, etc. Items for sale and trade. [Exp. #158.]

Sam's World *http://www.geocities.com/SiliconValley/Park/3942* Info about Sam—lots of animation, some Java, and links. [Exp. #158.]

Sprint Car Racing *http://www.apc.net/danh/sprnt-car.htm* Learn more about Sprint Car Racing on dirt tracks, including "A Night at the Races," racing flags, sprint car, and other links. [Exp. #158.]

Steve Soskin's Humble Home Page *http://www2.cruzio.com/~intersys* Poetry, bearded collie links, Santa Cruz links, New Age links, background music. [Exp. #158.]

Subconscious Sound Perception *http://www.av.qnet.com/~ivanj/* Help me collect info on the way sound influences thought. [Exp. #158.]

Talon's Corner *http://www.geocities.com/SiliconValley/Park/4887* A fresh site with X Files, ID4, the Olympics, and links to universities around the nation. [Exp. #158.]

Ted Alvy Cosmos Topper Home Page *http://pages.prodigy.com/FNJD74A* Mallard, Captain Beefheart, Little Feat, Neon Park, Firesign Theatre, and more. [Exp. #158.]

Thomas Pitre Home Page *http://www.pitre.com* I am involved in and deliver online training, curricula design, and fiber optic training. [Exp. #158.]

Topics For Seekers *http://www.hsc.use.edu/~leighton* Ancient gems from India's Vaishnava tradition. Beautiful and something truly different. [Exp. #158.]

William's Home Page *http://exo.com/~gelvin* Custom product demos, electronic portfolios, interactive presentations, games, and more. Macromedia Director and Visual Basic. [Exp. #157.]

GOVERNMENT/POLITICS

Culver City Home Page *http://users.aol.com/NEhrstrom/Culvercity.htm* [Exp. #158.]

Nobody for President *http://www.netvideo.com/nobody* Politics. Election '96. Humor. Nobody has been fighting voter apathy since 1976. Statistics, photos, VDOLive streams, fun. [Exp. #156.]

Official Clinton-Gore '96 Website *http://www.cg96.org* [Exp. #156.]

ARTS

3D Adventure *http://www.vpm.com/dair/carvel/* Science fiction adventure/satire with 3-D illustrations approx. every 50 words. Updated weekly. [Exp. #156.]

ACiD Productions *http://www.acid.org* ACiD hosts an independent artists' gallery, graffiti page, and audio clips from its music disk, pHluid. An eclectic advent garde collection. [Exp. #156.]

American Museum Of Natural History *http://www.amnh.org* A wide range of material, from general information on the Museum to detailed information on exhibitions, scientific research, and educational programming. [Exp. #156.]

Artwalker Project *http://www.artwalker.com* A virtual walkthrough based on paintings and drawings of real-world locations [Exp. #158.]

Cannonball Express *http://www2.best.com/~canonbal/* A video project-in-progress covering urban firestorms, home fire safety, and environmental issues. [Exp. #158.]

Digital Design & Associates *http://www.digital-design-assoc.com/* See our illustration and design portfolio. See Communique magazine. We do print and multimedia work. [Exp. #158.]

From The Fringe *http://www.ccnet.com/~tustin* Check out the photos and words from Tustin Ellison's adventure. [Exp. #158.]

Harry's Universe *http://www.catch22.com/~vudu/* Photography, travel information on Belize, Puerto Rico, Virgin Islands, Jamaica, Barbados, Costa Rica, the Dominican Republic, Indonesia, Japan, the Philippines, and more. [Exp. #156.]

Holly Crawford's Home Page *http://www.leland.stanford.edu/~geo/holly_crawford.html* An experimental poetry/art project. Send me an offer. [Exp. #156.]

Mountain Light Photography *http://www.mountainlight.com* Work by Galen Rowell, a world-renowned outdoor, adventure, wildlife, and nature photographer. [Exp. #156.]

Online Photography Magazine *http://www.wp.com/scinc/online.html* A photography magazine showcasing the finest in contemporary art. Also includes many articles dealing with photography and darkroom stuff. [Exp. #156.]

Overmire Associates *http://www.overmire.com* A wide range of services for Museum Collection Management and for private collectors. [Exp. #158.]

Pixel & Paper Art Gallery *http://www.demon.co.uk/london-calling/artgal.html* Featuring a new exhibition of photos of Auschwitz/Birkenau by Alan Jacobs. [Exp. #158.]

Pulpless.Com *http://www.pulpless.com/* Library of books released by best-selling authors, which can either read on computers as paperless books or printed as an on-demand bound book. [Exp. #156.]

Rowena's Page *http://red-agnes.la.ca.us/sdy/rowena/* Contemporary short stories about a young woman's life. By S. D. Youngren [Exp. #156.]

Starfighter Comics *http://village.ios.com/~viper77* Exclusive never-before-seen original comic books. Not in any store! Check it out! [Exp. #156.]

The Synagogue Space *http://www.panix.com/~ilduce/* Images of Cuba photography exhibition—A contemporary view of life in Castro's Cuba. [Exp. #156.]

Thogek's Wanna-be Story Index *http://www.alumni.caltech.edu/~thogek/writ* A few excerpts from short stories in progress looking for feedback. Bring your red pens. [Exp. #158.]

ENTERTAINMENT/LEISURE

1travel.com *http://www.1travel.com* Find the lowest air fares. New Consolidators Online program lets you connect with travel agents who work with fifty-five of the top consolidators. [Exp. #158.]

A Panacea *http://website-1.com* Amazing emotional truths. The world's first program capable of eradicating emotions using your PC. [Exp. #158.]

Actors Online *http://www.actorsonline.com* Premiere casting site for actor info, news, and trivia. Free listings to professional actors. [Exp. #158.]

American Vaulting Association *http://www.horsenet.com/ava/* The sport of equestrian vaulting—gymnastics performed on the back of a moving horse. [Exp. #158.]

Amtrak *http://www.amtrak.com* Amtrak's Web site offers travel planner guests with all of the information and travel tips needed to help ensure an enjoyable adventure by rail. [Exp. #158.]

Audiences Unlimited *http://www.audiencesunlimited.com/* Free tickets for over sixty comedy shows. Get information about your favorite TV show and stars. [Exp. #157.]

Austria For Americans *http://www.telecom.at/afa/* Your guide to travel in Austria. [Exp. #158.]

Babies On The Move *http://mpb.com/lucifuge/* An online resource for parents of young children in west Los Angeles. [Exp. #158.]

Baja Bound *http://www.bajabound.com/* This site sells books, maps, charts, apparel, and jewelry on Baja California, Mexico. [Exp. #158.]

BizBlues Records *http://www.bizblues.com* Got the blues? "Marketing Blues" makes fun of advertising, PR, strategic planning, and more. [Exp. #158.]

Black Star Beer *http://www.blackstarbeer.com* Learn about the Great Northern Brewing Co., its Black Star Beer, brewing techniques, and what's to see in Northwest Montana. [Exp. #158.]

Blue Wolf Network *http://www.bluewolfnet.com* Publishers of Browseteria, a variety show on the Web. [Exp. #158.]

China Travel Package *http://www2.gus.net/home/m/mluo* Discount China travel packages and more. [Exp. #158.]

Choraegus ShareMusic *http://www.choraegus.com/Choraegus/* Christian choral/ensemble music. Traditional, classical, and contemporary styles. [Exp. #158.]

Cyberforce Interactive Adventure *http://www.cforce.com* An interactive episodic Web site adventure that breaks all the rules and sets a new standard for online gaming. [Exp. #158.]

Danielle Steel *http://daniellesteel.com* Web site completely devoted to Danielle Steel and her books. Continually updated with new material each month. [Exp. #156.]

Electric Shorts Online Doom Mini Page *http://users.aol.com/elecshorts* Doom wads, 3-D gaming links, and demos. [Exp. #158.]

Game Demo Depot *http://www.gamedemo.com* Top games, hints, updates—download all you can take. [Exp. #156.]

Go Play *http://www.goplay.com/index.html* Interactive entertainment guide for the San Francisco Bay Area. Cartoons, personals, classifieds, movie listings, club and restaurant listings, and more. [Exp. #157.]

The Harveyville Fun Times! *http://www.geocities.com/Heartland/3550* A page for Harvey Comics fans, with animated cartoons featuring Casper, Richie Rich, and more. [Exp. #156.]

Hawaii State Vacation Planner *http://www.hshawaii.com/* Features a wide array of comprehensive travel info specific to Hawaii's four major island visitor destinations. [Exp. #158.]

HighlandNet *http://www.highlandnet.com* Scottish culture, tradition, Highland Games and entertainment in California and on the West Coast. [Exp. #156.]

InsideWLA *http://www.insidewla.com* West L.A restaurants, nightclubs, entertainment, movies, music, theater, coffee houses, and lots of links. [Exp. #156.]

Janet Whitebread *http://www.janetspetpeeve.com* [Exp. #158.]

The Kenny Rogers Web Site *http://www.epn.com/rogers* The official Kenny Rogers Web site. [Exp. #157.]

Montreal World Film Festival *http://www.ffm-montreal.org* Filmgoers in Montreal and around the world can find film descriptions, filmographies, and screen schedules online in both official languages. [Exp. #158.]

MultiWar Wargame Home Page *http://www.scvnet.com/~andy/MultiWar.html* MultiWar is a user-configurable multiplayer wargame. [Exp. #158.]

Music Network USA *http://www.mnusa.com* Complete information resources for music professionals. Music industry free classifieds [Exp. #158.]

National Football League Official Web Site *http://www.nfl.com* Real-time game day coverage, up-to-the-minute NFL news, team information, and audience chat sessions. [Exp. #157.]

Nouveau Performances *http://www.new-perfor*

continued on page 317

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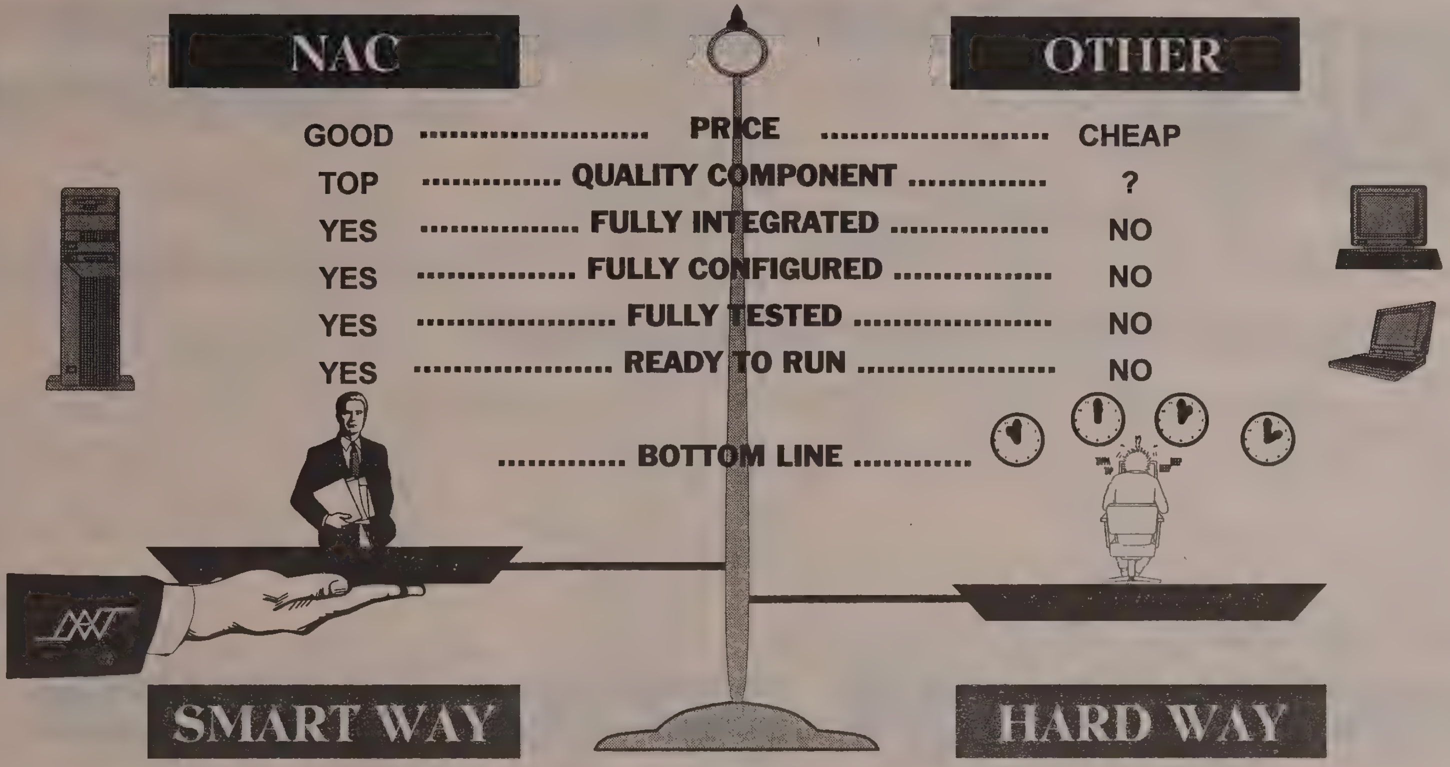

NAC		OTHER
GOOD	PRICE	CHEAP
TOP	QUALITY COMPONENT	?
YES	FULLY INTEGRATED	NO
YES	FULLY CONFIGURED	NO
YES	FULLY TESTED	NO
YES	READY TO RUN	NO
	BOTTOM LINE	
SMART WAY		HARD WAY

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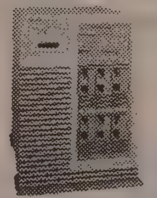

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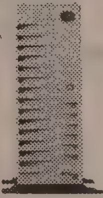

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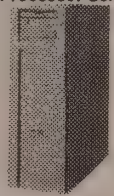

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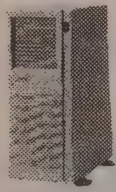

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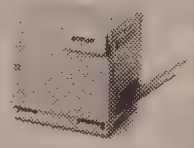

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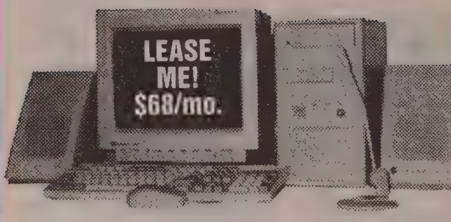

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- ◆ **SVGA Monitor 15" .28 NI**
- ◆ 2MB SVGA MPEG Video Card with S3 Trio 64V+ Graphics Accelerator
- ◆ **8X CD-ROM**
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- ◆ **33.6 K Voice FAX Modem**
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- ◆ High Fidelity 200 W Speakers
- ◆ **33.6 K Voice FAX Modem**
- ◆ Mid-tower Model
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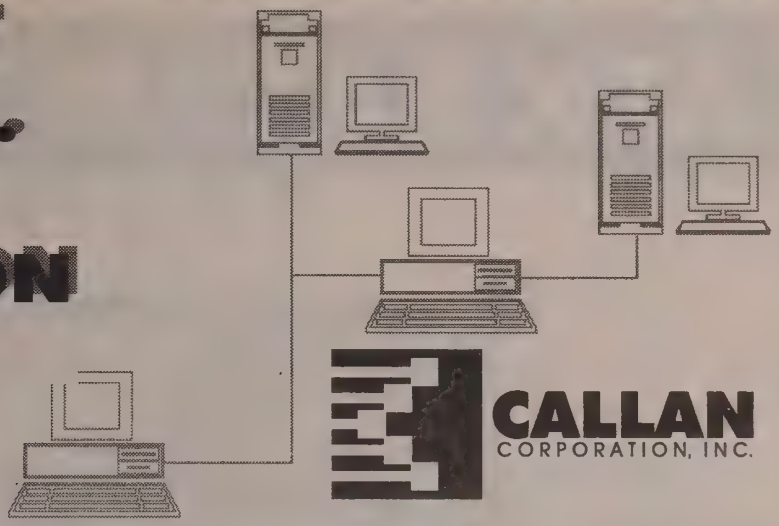

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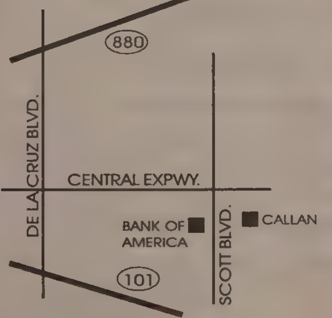

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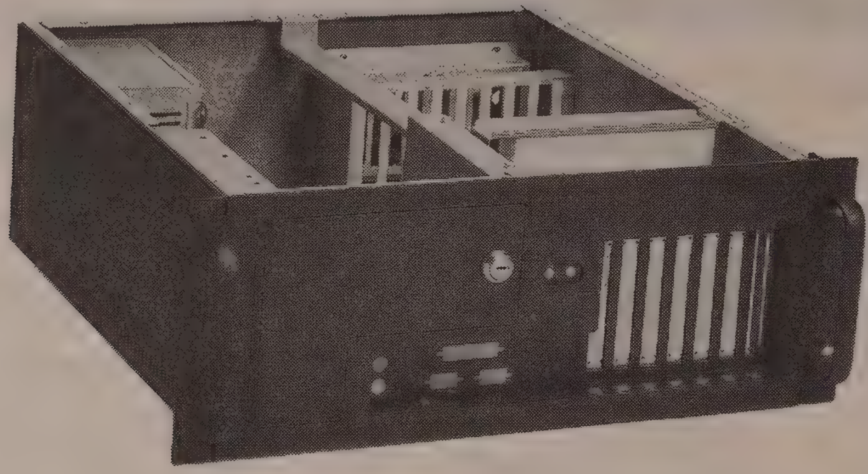

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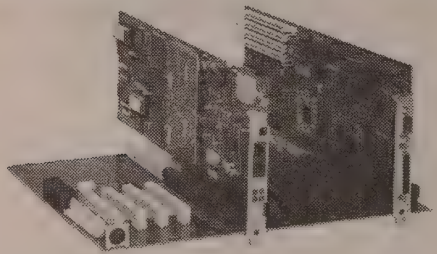

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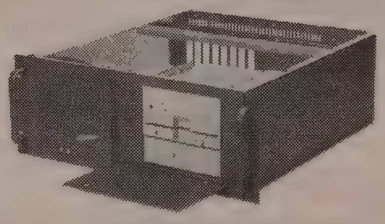

RC-4107ATX

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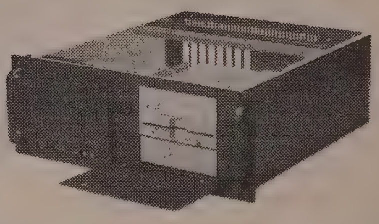
Switch (Reset)



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Product Spotlight

Updates

Bolvad Communications has made available **Job Activities Time Tracking System (JATTS)**, a groupware solution for tracking time and costs for multiple projects. Bolvad Communications, 139 Ashley Ct., Cherry Hill, NJ 08003. 1-800-32-JATTS.

Canon has lowered prices on its **BJC-210/BJC-4100 Color Bubble Jet Printers** by $50 and $40, respectively. Suggested retail prices are now $149 for the BJC-210, and $229 for the BJC-4100. Canon Computer Systems, Inc., 1-800-848-4123, or URL: *http://www. ccsi.canon.com* .

CYMA Systems Inc., has released **PAS v5.0**, the upgrade of their accounting software. $675, or $95 as an upgrade. CYMA Systems, Inc., 2330 West University Dr., Ste. 7, Tempe, AZ 85281. 1-800-292-2962, ext. 929, or *info@cyma-systems.com* .

ESRI has announced **ArcView GIS v3.0**, the latest release of their desktop GIS and mapping software. Call for pricing. ESRI, 380 New York St., Redlands, CA 92373-8100. 1-800-447-9778, or URL: *http://www. esri.com* .

Experience In Software, Inc. has shipped **Project KickStart, v1.5**, a project-planning tool. $99.95. Experience In Software, Inc., 2000 Hearst Ave., Ste. 202, Berkeley, CA 94709-9944. 1-800-678-7008, URL: *http://www.experience.com* .

Global Data Security has released a new version of their software virus prevention program, *disk***net**. $175. Global Data Security, 425 Madison Ave., 18th floor, New York, NY 10017. (212)317-0992, or *102412.1731@compuserve.com* .

IBM has shipped **VoiceType 3.0**, a voice-recognition system for OS/2 and Windows environments. $699, or $99 as an upgrade. IBM, Software Group, Route 100, Somers, NY 10589. 1-800-TALK-2-ME, or URL: *http://www.software.ibm.com* .

McAfee has announced **Vycor Enterprises 3.1**, a client/server help desk suite. $11,000 (for up to ten help desk consoles). McAfee, 2710 Walsh Ave., Santa Clara, 95051-0963. (408)988-3832, or URL: *http://www.mcafee.com* .

Platinum *technology, inc.* has made available **NetArchive 2.5**, a file backup and storage management solution. Platinum *technology, inc.*, 1815 South Meyers Rd., Oakbrook Terrace, IL 60181-5241. 1-800-442-6861, or *info@platinum.com* .

SoftQuad Inc. has released **HoTMetaL PRO 3.0** for Macintosh. $159. SoftQuad, Inc., 56 Aberfoyle Crescent, 5th Floor, Toronto, Canada M8X 2W4. +1-416-239-4801, *mail@sq.com* , or URL: *http://www. softquad.com* .

Voysys Corporation has shipped **VoysAccess 2.0**, an ActiveX development toolkit providing interactive voice response capabilities. $595. 48634 Milmont Dr., Fremont, CA 94538. 1-800-7-VOYSYS, or URL: *http://www.voysys.com* .

WorkGroup Solutions (WGS) has released **FlagShip 4.4**, a next-generation programming language. $25 or available free via URL: *http://www.wgs.com* . WorkGroup Solutions, Inc., P.O. Box 460190, Aurora, CO 80046-0190. (303)699-7470, or *info@wgs.com* .

Product Announcements

CD-ROM

Virtual Graceland CD-ROM

Highway One Media Entertainment has announced the release of Virtual Graceland for both Macintosh and Windows. Working in partnership with the Elvis Presley Estate, Highway One has created a two-disc CD-ROM set that allows users to wander around behind the scenes at Elvis Presley's mansion, Graceland, and zoom in on objects to learn more or actually "use" them. A guided tour is also included, as are interviews with Elvis' friends. Highway One Media Entertainment, 964 Pacific Coast Highway, Santa Monica, CA 90403. 1-888-ELVISCD, *e.hwyone@aol.com* , or URL: *http://www.virtualgraceland.com* .

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Visual Home

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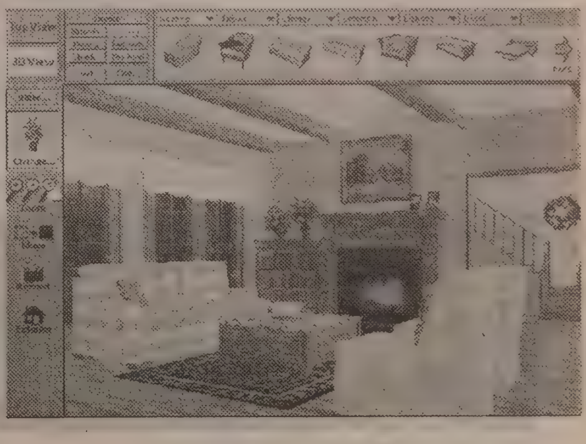
continued on page 302



Gulch GOSSIP

by Jonathan E.

For the latest CD-ROM and software news & reviews, see our Product Spotlight section starting on page 197

Everyone Is A Broadcaster

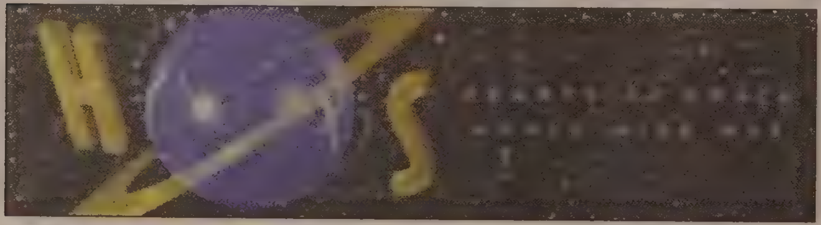
This is, of course, close to one of the great rallying cries of cybermedia. Usually, however, it's slightly less strident—more like, "Everyone Can Be A Publisher."

But these are the words that **Stephen Hill** of **Hearts Of Space** printed on his new humongous promotional badges (which remind me of the glory minutes of New Wave when everyone had to have promotional badges—but tiny ones, the smaller the better, to match the ties, I think) along with "Get With The Net" and the URL, *http://www.hos.com* .

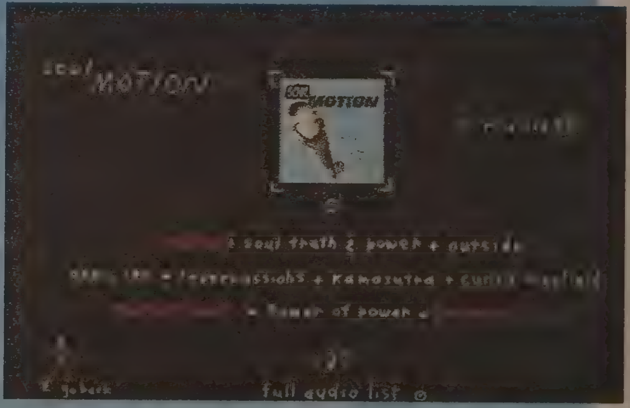
Now obviously, Stephen is a broadcaster already with his syndicated radio show, which perhaps excuses him from totally missing the technical point about Net media—that it's on demand, asynchronous, and digitally addressed—but perhaps not. Never mind, Hearts Of Space have some fabulous new releases out on old-fashioned CD.

Of particular interest to fans of Archaic-Revival sound manipulation is *Halcyon Days* by the supergroup (if I may be pardoned for using such a '60s expression) of **Steve Roach**, **Stephen Kent**, and **Kenneth Newby** (who is currently working on a CD-ROM for DNA Multimedia as featured in this month's Multimedia 101 column). If you like, or think you'd like, digeridoos, assorted percussion, and a few other acoustic instruments stirred up with mega-electronics into a mysterious, enticing, sometimes scary, but also illuminating soundscape that has nothing to do with cyberspace (I think), then this is the music for you.

In particular, another new HOS release that caught my ears is *Deep Peace* by **Bill Douglas**, featuring the **Ars Nova Singers**. Again, nothing to do with cyber-anything, but the title is quite utterly accurate—when you want to escape from everything that's hassling you in the workaday world, playing this vaguely Celtic mix of choral and instrumental music, with lyrics from poets such as **Robert Burns**, **William Blake**, and **William Butler Yeats**, will take you to someplace else, where there's never a system crash, a demanding boss, or a disgruntled client.



Om



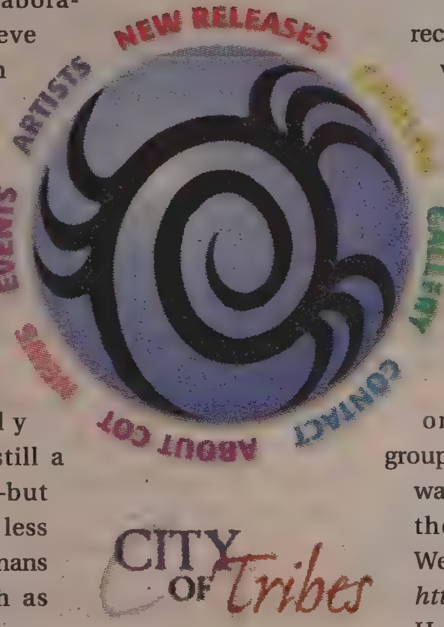
As I wrap this up, late at night and way past the formal deadline, two new titles from Om Records are at hand, but only recently so. One is *Soul Motion* and the other is *Mushroom Jazz.*

What's interesting about them? Well, first, while Om has not quite kept up its announced schedule of one release a month, it's come very close. Second, these are double CDs; one disc in each release is audio only, while the other is CD-ROM. What has happened to Enhanced CD? I don't know. What are these like? I haven't had time to look yet, although a quick listen to the audio-only discs reveals solid selections of club music in the soul and sorta-acidy jazz veins, both Bay-Area based and international, both new and vintage. More next month.

Can't wait? Go buy your own or check the Web-O-Rama at *http://www.om-records.com* .

Trance Mission Heads For The Light

STEPHEN KENT AND KENNETH Newby are also half of **Trance Mission**, who has a new CD, *Head Light*, out on City of Tribes. This is a considerably different sound from their collaboration with Steve Roach. Although the music is from the same universe, it's an older universe. The music is more measured and less cosmically swirling. It's still a mythic time—but more pastoral, less primordial. Humans walk the earth as well as dust demons. **Beth Custer**'s clarinets provide an elegiac air, somehow both contrasting and blending with Kent's digeridoo, although he spends a lot of time playing other instruments on this recording. **John Loose** brings yet more percussion and electronics into the mix, adding a slightly more bodily dimension alongside Newby's Eastern esoterics.



Trance Mission's recent live gigs didn't work too well for me because of their bar- and barn-like locations, so it was a great pleasure to be able to hear new music from this authentically original Bay Area group in comfort. If you want to check up on the **City of Tribes** Web site, its URL is *http://www.cot.com* . Hopefully, the access problems (alluded to in a past Gulch Gossip—suffice it to say, a naughty and arrogant Webmaster!) that City of Tribes was having with it have been resolved.

What Does Eno Anyway?

I'M THOROUGHLY ENJOYING READING BRIAN ENO'S DIARY FOR 1995, PUBLISHED as *A Year With Swollen Appendices* by Faber and Faber. It's endlessly fascinating to know when he scrubbed out his shower, what he cooked for dinner, how his shoulder felt on any particular day, and about the pleasure he got from using Photoshop to make women's bottoms bigger.

This is no mere idol worship or celebrity infatuation. Although I find him interesting, I do not idolize him and, as far as celebrities go, he's pretty small potatoes—and not nearly weird enough. No, the hook is seeing how such mundane activities, along with a good deal of fiddling about, are accommodated and incorporated into a creative life.

The Bay Area receives a fair amount of attention with Eno saying nice things about **Greg Jalbert**'s **BlissPaint**, mentioning **D'Cückoo**, and including his side of email with **Stewart Brand**. Eno bluntly refers to "the failure of the digital revolution," so I think we can safely assume that there's no CD-ROM version planned—or even a Web site, although I have the impression that he's always ready to reconsider his options.

But, since he's so generous with others, I'd like to mention that his brother, **Roger Eno**, has a perfectly gorgeous new CD out on Gyroscope called *Swimming*. Strangely, it features songs performed at public hangings—but is not gloomy in the slightest. As Roger writes in the notes, "I do love a song with a swing."

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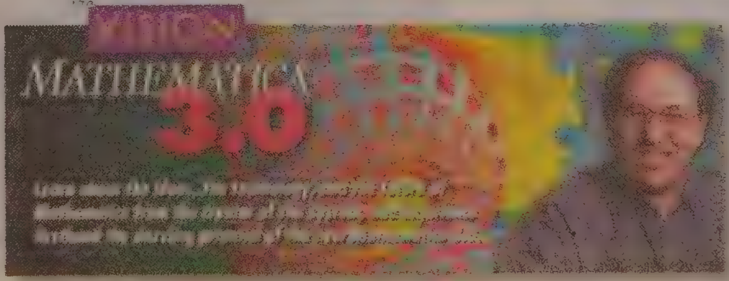
And Now For Something Completely Different

IF YOU'RE FINDING THE SAME-OLD-SAME-OLD SOUTH-OF-MARKET multimedia scene a wee bit tedious, if you're suffering from a sense of déja vu from running into the same faces again and again on the incessant treadmill of new-media conclaves, if you're just tired of all this soft-headed, humanist arty stuff, then here's a hard science (not hard sell—oh, no, no, no!) event for you.

Stephen Wolfram, creator of **Mathematica** and legend in his own press release, will visit California to give live demonstrations of Mathematica 3.0 and discuss "the intellectual advances that made the new product possible." He'll "share The Vision of Mathematica and how the program's symbolic programming, unique integrated system approach, and advanced calculation-oriented computational, graphic, and modeling capabilities will empower new, and until now unachievable, levels of professional endeavor ranging from scientific and mathematical research and exploration to computer art and technical publishing."

Not only that, but he'll do it more than once! In the Bay Area, the relevant date is Monday, October 14. Between 12 noon and 2 p.m., Wolfram will be at the Turing Auditorium at Stanford University. In the evening, from 7 to 9 p.m., he'll be at the Palace of Fine Arts Theater, 3301 Lyon St., San Francisco. There is a reception after both events.



For further info, the relevant Web site with The Vision of Mathematica is at *http://www.wolfram.com/vision* . According to the press release, "the introduction of Mathematica 3.0 represents the largest project ever undertaken in technical computing." I doubt I'll understand half of what Wolfram has to say, but that'll be a nice change from all the pie-in-the-sky multimedia and Web visions that are boring me to death with their repetitive and tiresome emphasis on big corporate marketing. Being Mathematica, this may turn out to be pi in the sky. But here's to the revival of the hardcore of geeks and nerds! Down with cybermedia sluts!

GULCH GOSSIP *continued...*

Back In The World Of Mondo

Stop the world—I want to turn on! Or something like that—maybe tuning in and dropping out would be better ideas judging by the new issue of the revived *Mondo 2000.*

Well, not revived—it wasn't actually dead, just resting. Some callous and heartless—or at least acerbic—types call it "the Charles and Heide Memorial Issue," which is going a bit far, although science editor **Charles Ostman** and art director **Heide Foley** both have a lot of material in there. But the reason for dropping out (if such a thing were still possible) would be the interview with Ostman, conducted by **Geoff Metcalf** of KSFO, wherein many dark and terrible secrets behind the current infatuation with technology were divulged.

It's quite a dystopian picture and has completely changed my opinion of the Mondoid world, which I had naively assumed was gung-ho for technology, having mostly looked at *Mondo*'s ads and pictures over the years. Far from it! Mr. Ostman totally shreds the wide-eyed acceptance of, even swooning over, techy toys and money grubbing that is so prevalent amongst our less discerning publications—such as *Wired*, for example. Ms. Foley, in concert with **Ladd McPartland**, conducts an interview with the ever-inspiring **Mark Pesce**, who explains his views on the spiritual and cultural ecology of the Web.

Both have other interesting and (ah!) unusual pieces printed but, fear not, there are plenty of other contributors. Domineditrex (I just love that title) **Queen Mu** has announced plans for the next issue to concentrate on conspiracy theories. If you have any conspiracies you'd like to further, contact her on the usual astral plane.

While briefly on the same plane that I usually occupy, she made two astoundingly profound observations that I will pass on to you in roughly paraphrased form. Firstly, she observes that webs are designed to entrap rather than to liberate. Secondly, she notes that, as new electronic media forms become ever more evanescent, the power of the printed page increases—a good reason to advertise in print magazines like, say, *Mondo 2000.* Just to keep my overlords happy, let me add that it's a good idea to advertise in *MicroTimes* as well. Tell 'em I sent you. ■

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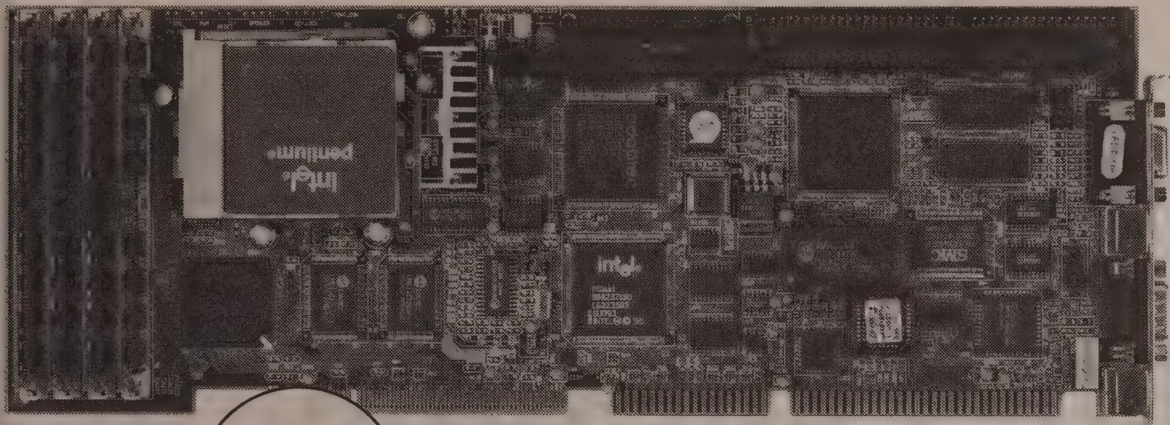

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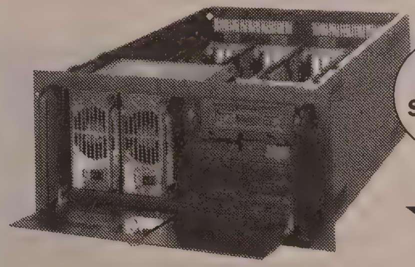

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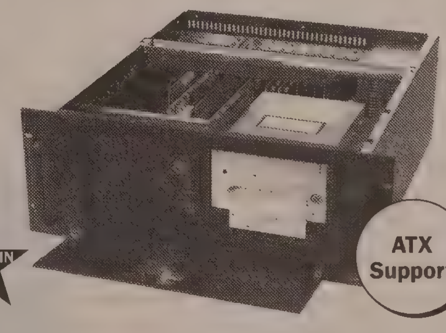

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MULTIMEDIA 101

Edutainment Is Dead; Long Live Edutainment

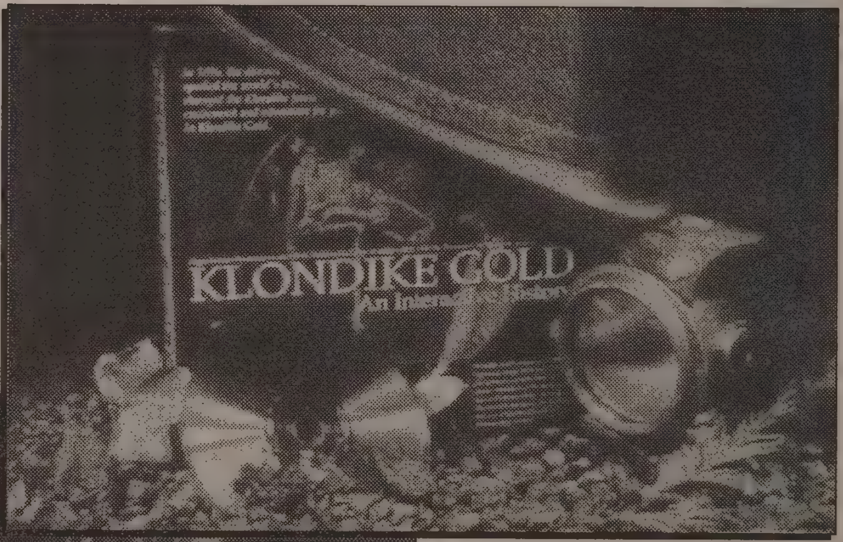
Plus: Two Intriguing Titles

Word is out that the market for independently produced edutainment CD-ROM titles is dead, killed by a combination of "boys just want to play games" and the entrance into what market there was of behemoths, such as Disney, with immense brand-name recognition and the distribution muscle to shove the little folks off the shelves.

This was not the vision of a few years ago when hopes were heady, idealism reigned, and the projected future was bright and rosy for the a-borning genre of edutainment, supposedly to be created by a myriad of small publishers with desktop equipment.

Edutainment is, of course, an interestingly dodgy proposition by its very nature. What's wrong with simply learning something? Why is it ever considered to be a good idea to try to slip learning in under the wire? The market for straightforward educational software appears to be still booming, as traditional textbook publishers scramble not to be left behind as the next electronic media wave crashes upon society's beaches.

If you keep your brain and mind open, good entertainment will teach you something anyway, albeit inadvertently or serendipitously. Specifically directed learning often spoils the entertaining aspects of entertainment by making it overly preachy, like the dreadful politically correct hectoring of so much reggae. But, on the other hand, perhaps the impetus behind edutainment is a noble desire to reawaken memories of the dramatic aspects of traditional rites of passage and initiation with



THE SILK ROAD

BY JONATHAN E.

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MULTIMEDIA 101 *continued...*

its communication of the tribe's knowledge.

The question of scale in multimedia also has its multiple aspects. Surely, much of the early idealism was either ill-informed or just not thought through. When there's somebody else's lunch to be eaten, the big boys will eat it—that's capitalism. Under the current economic system, Disney's stockholders would be justified in screaming bloody murder at the execs if Disney wasn't aggressively moving in and scarfing up everything it could.

The economic issues are quite separate from the technical questions of whether a small shop can create good work on desktop machines. Obviously, small shops can do such a thing, although, for the most part, to do really good and commercially viable work still takes a setup that's a bit more complex than the fabled electronic cottage.

At this juncture in the development of multimedia, it's worth taking a moment to ponder these issues. Is multimedia to become nothing more that a gaming market? Is this the only reason why the new machines have 8x CD-ROM drives, and why such emphasis is put on 3-D graphics? Is the Internet going to work in helping independent producers market and distribute their more idealistic and innovative creations? Do these creations, in fact, communicate more effectively than traditional media? Are multimedia CD-ROMs and so-called interactive media mere flashes in the pan? Will they turn out to be only fool's gold?

> Is multimedia to become nothing more that a **gaming market?** Is this the only reason why the new machines have 8x CD-ROM drives and why such emphasis is put on **3-D graphics?** Is the Internet going to work in helping independent producers market and distribute their more idealistic and **innovative creations?**

Certainly the rapid intrusion of the Internet into society's mind space has combined with disappointing CD-ROM products and cutthroat business practices to remove the bloom from the multimedia CD-ROM rose—and none too gently. Whether this is a permanent fading or merely an interval before a reblossoming remains to be seen.

Two educational and entertaining CD-ROMs published by Vancouver-based DNA Multimedia Corporation offer some intriguing insights. DNA is not keen on the "edutainment" word, preferring to call these titles simply Arts & Culture.

One of the discs, *The Silk Road*, while not quite perfect, handles its subject matter well, with options that other media forms and the Internet would find hard to match. If the market cannot support a product like this, we are all the poorer for it. The second, *Klondike Gold*, is not as ambitious—but is far from a failure.

THE SILK ROAD

Whether *The Silk Road* falls within the strict definition of edutainment is debatable—but it is entertaining, surprisingly so, and it is educational. It is also something that, as befits its subject matter, is just too large, sprawling, and media rich to work as a Web site.

Besides its scale and the obvious issue of speed, one other distinct advantage to CD-ROM becomes rapidly apparent with this title (this is also true of other titles)—there's a lot more visual language available on a CD-ROM; pictures can dissolve, fade, and wipe one into another. One day, perhaps, the Web will be fast and clever enough to do this, but for now, CD-ROMs and local media have it hands down over the Web when it comes to using the fairly standard conventions of cinematic and graphic language. The effect of this advantage is to immediately add a level of sophistication to the presentation.

DNA claims that, in its day (or for centuries), the Silk Road was the Internet of its time, being used to transport not only goods but, more importantly, ideas, philosophies, and technologies. The CD-ROM illustrates this with a variety of maps and timelines, hyperlinked together along with text, animations, and music. It's actually a pretty classic approach to multimedia presentation and generally done well, although I can quibble with some details. The text, being bitmapped, is only searchable by prechosen indexed words, and several words you might want to search by are not indexed. In some sections, you can only skip forward, not rewind to the beginning of a sequence or even randomly access a short sequence by going up a level and selecting the desired portion; this is a real problem if attempting to use *The Silk Road* for study purposes.

One of *The Silk Road*'s best features is its testing section, which makes it a cut above the average interactive product and edges it into edutainment rather than the "coffee-table" category. There's a quiz for each of the main subject areas; getting a high enough score will give a Key from the University. Collecting enough Keys allows you to enter the Cave where you are promised Enlightenment.

The questions are not easy! You must really have paid attention to the information presented. If you get the wrong answer, you lose points and only a couple of wrong answers will make it impossible to score high enough. If you fail the quiz, you can take it again—but not right away, and the questions will be different. It's an authentic challenge that really tests your knowledge of what's on the CD-ROM, but handled with a humor that takes the edge off the humiliation. At other spots on the disc, there are also questions to keep you engaged, but these are "just for curiosity." Each subject area has its own guide or narrator, usually a historical character who lends an air of dramatic presentation or storytelling to the content. This can be a tricky thing to get right; it's easy to be cute, corny or condescending. The characters of *The Silk Road*, however, generally work very well, although occasionally their assumed accents seem cliched.

What's really great about *The Silk Road* are the photographs of places that, for the most part, would probably be quite arduous, even unpleasant, to visit in reality—yet part of the disc's announced goal is to leave you with the desire to go there yourself! However, the disc is also packed with information about the history of inner Asia and such things as the spread of Buddhism and Islam.

Ultimately what makes *The Silk Road* work is that its producer, Marek Gronowski, communicates his enthusiasm and fascination for the

continued on page 209

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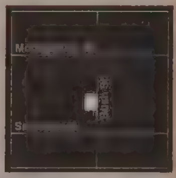

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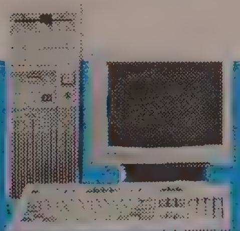

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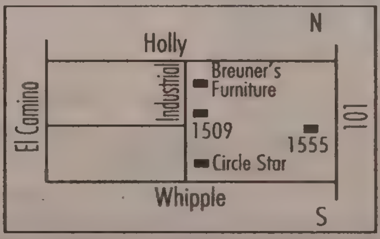

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MULTIMEDIA 101

continued from page 204

subject matter: he has spent many years traveling in the region, has taken most of the photos, and also spins a few of his own tales. He does it all with good interactive technique, but there's little doubt that he could also have made a good book or video on the Silk Road had he so chosen.

KLONDIKE GOLD

Fascination for the subject matter is also apparent on the *Klondike Gold* CD-ROM—as you would expect given that it is produced by Hyperborean Productions Inc. of Whitehorse in the Yukon, using photographs from the Dawson City Museum and Historical Society. It seems quite amazing that multimedia has penetrated so far into the thinly populated north!

However, *Klondike Gold* takes a far simpler approach to multimedia interactivity, relying partly on the "mousing-around-to-explore" model followed by a standard hierarchy of hyperlinks that takes you deeper into the subject. Often the problem with this approach is that, however good the content, it's not really presented; there's not much light and shade, there's not much storytelling. It's the difference between a reference work and an engaging history. *Klondike Gold* wants to be an engaging history and has worked around this problem by the use of strong narration and visual suggestion of a linear sequence to work through the material. However, just as you're free to open a book at any page, you're also free to jump into the story of the Yukon at a variety of points, although not quite with the immediate random access ability of a book.

An interesting thing about *Klondike Gold* is that it is designed for use in a museum kiosk setting. Thus, it is relatively simple and straightforward to use without a lot of the bells, whistles, and interfaces-that-try-too-hard, which are so often found in multimedia. It's also pretty fast and smooth. Unfortunately, there's no index, and some of the screens have rather annoying environmental sounds designed to get you to hurry along and click. There's no quiz section either—no humiliation! All these things are the sort of features you'd expect in a public situation where you might want to encourage turnover and a rapid pace rather than what you might do if designing for slower use at home or in a classroom. It gives the disc a subtly different feel from most CD-ROMs. As well as the historical photographs and associated text covering life in the Yukon before, during, and after the gold rush, there's also a section explaining the process of mining and a reading of a poem, "The Cremation of Sam McGee," by the poet Robert Service, apparently the great poet of the Yukon.

If you're particularly interested in this subject matter, *Klondike Gold* offers a wealth of good material. The problem is that, if you're only slightly interested, the story might have been better told and more likely to grab your attention through traditional media such as a book or video. ■

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If you're shopping for a new Macintosh and planning to work in graphics, desktop publishing or different areas of multimedia, a new or recent model with the PCI (Peripheral Component Interconnect) bus architecture is the way to go. PCI has brought greater expandability and throughput speed for graphics and multimedia applications.

That may be reason enough to abandon your existing faithful NuBus-based Mac. Then again, it may not. Apple estimates that there are as many as ten million NuBus machines still active out there. Macs seem to have this obsessive habit of continuing to work. Many of them still have at least one empty slot, and are operating at levels of power to take advantage of a viable solution to reaching multimedia performance parity: adding a NuBus graphics accelerator card.

You can do this economically and really upgrade your performance by finding a good used unit, buying a board from one of the refurbished-hardware vendors, or taking advantage of the big price reductions in new boards such as those offered by Radius.

THE BIG PICTURE

Another reason for boosting your NuBus is that even the average user has a considerable need to mount larger monitors with higher resolution and more powerful graphic acceleration to drive and display the new media.

If you spend a great deal of time on the World Wide Web, you find out pretty quickly that it's hard to display an entire Web page, corner-to-corner. Even on a 20-inch monitor, the page can take up to 60% of the screen area. Your regular on-board video will not be able to support a display that large, or if it does, at no more than 8 bits of resolution.

If your Mac is one of those with a flat, pizza-box CPU enclosure, you will need a NuBus Adapter Card which provides a right-angle socket for the seven-inch cards. Finding one may be the hardest part, since Apple has stopped manufacturing them. You may have to pay almost $250 for one through a mail order firm. Most of the NuBus machines are of the fruit-crate variety, where the card is seated vertically.

BY TONY REVEAUX

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RADIUS BOOSTS NUBUS *continued...*

Some older Macs that don't have NuBus are those with special "PDS" slot architectures. The PDS-based Macs have an adapter that is an Apple product, which allows third-party cards to plug in. The PCI Macs can also have NuBus cards attached using a third-party PCI/NuBus bridge box from vendors such as Second Wave.

RADIUS THUNDER

A good example of the kind of full-power, full-featured muscle that will give your Apple crate a remake is the Radius family of Thunder NuBus graphics accelerators: the Thunder IV GX1152, Thunder IV GX1360 and Thunder IV GX1600 (where the last number represents the highest resolution supported by the card). Any NuBus-capable Macintosh can use the Thunder IV family of cards.

> While these accelerators were engineered for *graphic designers* and multimedia developers, they fuel an overall speed, resolution and *performance hike* of up to four times what you've expected of your desktop environment.

A final round of reductions have brought these accelerators to a price-competitive performance level with much of the PCI options. Retail prices are: Thunder IV GX1152, $899; Thunder IV GX1360, $1099; Thunder IV GX1600, $1199. Shop around, both on the shelves and on the back pages, for these and other NuBus ninjas.

The Thunder boards have accelerated 24-bit QuickDraw that scrolls, zooms and redraws up to twenty times faster. The built-in PhotoEngine with four AT&T 32-bit DSPs (Digital Signal Processor) accelerates many of the functions of Adobe Photoshop such as filtering and resampling, mode conversions and onscreen graphics acceleration for fast viewing of CMYK files.

They have 10-bit Digital to Analog (DAC) converters, which smooth gradients and minimize banding. The Flash-ROM on the interface card allows software updating, with current updates available online from Radius. The RadiusWare package of utilities and control panel devices opens up greater control of resolution, color fidelity, monitor and QuickDraw acceleration.

LIFE IN THE FAST LANE

Since I installed a Thunder IV GX1600, I've found that even pulling in graphic pages from the World Wide Web is swifter. No sooner are the pixels defined then they are slammed into the picture with almost no draw delay. And text does scroll faster in Microsoft Word, even in the weighty version 6.0.

While these accelerators were engineered for graphic designers and multimedia developers, they fuel an overall speed, resolution and performance hike of up to four times of what you have expected of your desktop environment.

BOOKS FOR WEB DESIGNERS

What's the matter, is the Web not moving, animating, sounding or twirling fast enough for you? And you want to do something about it?

You'll get a good start with the *Web Developers Guide to Multimedia and Video* (Coriolis Group Books, 400 pp + CD-ROM, $39.99) by Nels Johnson. This clear-cut guide to all four corners of the Web-meister's workbench will bring you up-to-speed and up-to-date. The author shows the characteristics and differences between tools and formats such as Shockwave and Java, downloading versus streaming, developing for the Web and for CD-ROMs, and working with Macs and PCs.

If you're feeling out of your depth these days, *Instant VRML Worlds* (Ziff-Davis Press, 122 pp + CD-ROM, $29.99) by Randall C. Kennedy should bulge your orbs. VRML (Virtual Reality Modeling Language) still has a long way to go, but it's a graphic standard that provides the tools for experimentation and can operate over low bandwidth. Here you can learn the essentials of VRML, what to expect from it, and then go further on Caligari's Pioneer authoring package. The Windows-based CD-ROM supplies 3-D objects, templates and a version of DimensionX Liquid Reality.

Now that you've set your cross hairs on multimedia, how can you transition from hobbyist to gainful employment? *Careers in Multimedia: Roles and Resources* (Integrated Media Group, 290 pp, $30.95), by Hal Josephson and Trisha Gorman, provides a good real-world road map to who and what is out there on the employment front. The authors ask good questions—Who's hiring? Where will the jobs be?—and provide the background, definitions and resources to help you define your own skills and present them to likely prospects. Interviews with multimedia professionals in many areas will help put you in the right frame of mind for *your* interview. ■

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Ooooohhh Nooooooo . . . Doug's Holiday Adventure

Amigas, Raptors, Lightwave, And . . . Mr. Bill?

I recently had the opportunity to work on a very long animated segment for the "Mr. Bill Christmas Special." (As you'll probably recall, Mr. Bill is a Play-Doh character made popular during the early years of "Saturday Night Live.")

I used Lightwave 3D on a 333MHz DeskStation Raptor Reflex for all of the object creation and rendering, but still relied heavily on an Amiga Toaster/Flyer setup for image processing, format conversions, video previewing, etc.

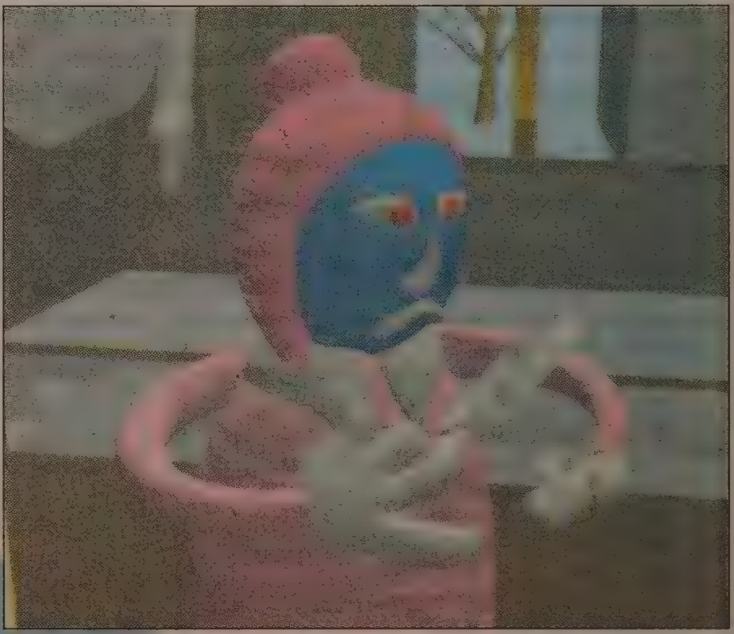
IMAGEFX, AREXX, AND BUGS

Many shots involved using digitized video in Flyer clip format, which needed to be composited into a 3-D environment. All of the original Flyer clips were given to me on a MS-DOS partitioned 2GB SCSI hard drive. Using the most recent release of CrossDOS, it took no time at all to mount the drive on my Amiga.

Unfortunately, early on, a serious bug was discovered in the Lightwave software: NewTek's own application, Lightwave 3D, would not consistently load the Flyer clips. The clips had to be broken up into individual frames.

Using ToasterPaint to break-up the clips into IFFs would have taken too long and required tremendous storage resources. Fortunately, luck was with us, as Nova Design had just released an upgrade to ImageFX, the premier Amiga image processing program. This version now supported saving and, more importantly, loading, Flyer clips.

In a few hours, I had a nice ARexx script written that would batch-process a list of Flyer clips. Each clip was broken up into image sequences which were saved in space-saving JPEG format to the 2GB drive. My script also created appropriately-named subdirectories and filenames. However, instead of moving the drive to the Raptor, I found it easier to transfer the frames using Syquest cartridges. Having 270MB Syquest drives installed on both the Amiga and Raptor proved to be a wise investment.



A NOTE FROM DOUG

Due to professional and personal demands, my contributions to *MicroTimes* will be sporadic. As you can tell by my current article, I have not left the Amiga market and don't see that happening anytime soon. So keep reading *MicroTimes* and look for lots of cool Lightwave, Amiga, video, Windows NT, and other stuff from yours truly. Thanks for reading!

BY DOUGLAS J. NAKAKIHARA

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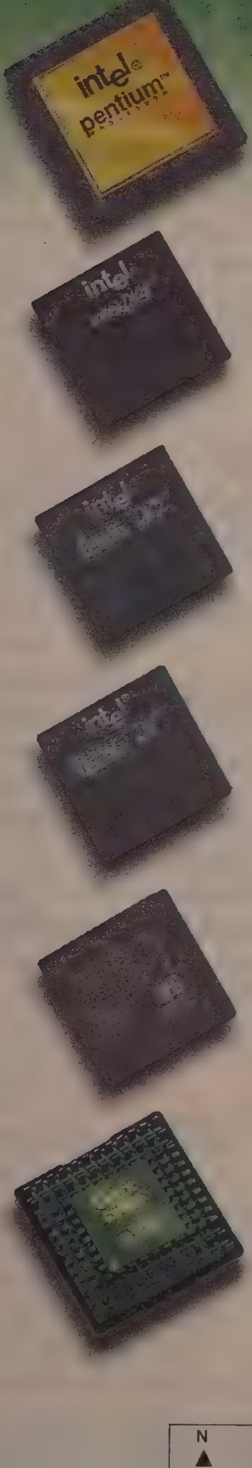

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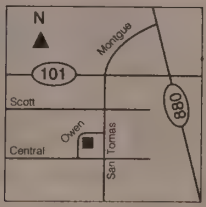

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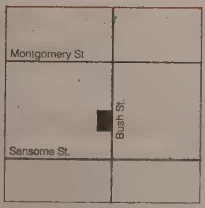

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ZIPPY SOLUTION

Besides the Syquest, ZIP drives played a very important role in sharing and transporting data. The show's producer (and Mr. Bill's creator), Walter Williams, relied on a fast Pentium notebook. He already had an external SCSI ZIP drive hooked to his machine, so I got one too. Except for the numerous image sequences, all of the scene, object, and texture maps fit comfortably on a single 100MB disk. This allowed us to easily share and archive files.

COMPOSITING

One of the most difficult tasks was compositing the real video into the scenes, and often needing it to interact with 3-D objects. "Mr. Hand" was a real hand shot over green screen. Hold-out matte images were then created from the digitized frames using ImageFX on the Amiga.

With both image sequences loaded into Lightwave, I basically texture-mapped the full-color image onto a two-dimensional rectangular plane and used the matching matte as a clipmap. The clipmap acts as a cookie-cutter and allows only parts of the image to appear—Mr. Hand, in most cases here.

Working with green screens is tricky, and we ran into some problems with green light spilling onto the subjects. This also made it difficult to generate clean mattes. Fortunately, the subject was supposed to be a ghost, and adding some transparency/dissolve helped out a lot. We ended up living with some green tint.

A particularly complex comp'd scene involved a heavy chain falling on Mr. Bill's dog, Spot, sending him through the floor. Part of the floor and the chain were real, but the surrounding walls, fireplace, and Spot were 3-D. For realism, Spot had to cast a shadow on the floor!

I could probably write a book on how the shot was set up. Suffice it to say, the Lightwave scene looked ugly, but the result was pretty darn cool!

3-D MODELING AND OPENGL

Lightwave's recently added support for OpenGL turned out to be a godsend on this project, particularly in the modeling process. Aligning objects and parts of objects in the various layers of Modeler is infinitely easier when the preview is displaying a shaded full-color image that can be rotated at will. Problems with incorrectly facing polygons, or even missing polygons, were immediately visible.

Although OpenGL is also featured in Layout, the frame-rate is just a little too slow without a hardware-accelerated video card. Plus, OpenGL doesn't take into consideration shadow-casting and a lot of object-surfacing information. However, rendering half-screen or quarter-screen AVIs provided more than satisfactory feedback on timing, video alignment, color, shadows, etc.

I ended up adding another 128MB, for a whopping total of 192MB of RAM! Thank goodness that RAM prices have dropped so much. I paid a couple hundred dollars more for one-fourth the memory just a few years ago.

I modeled most of the objects myself, but many of the more generic objects were taken from the LightROM 2 and 3 CDs. This terrific collection of objects saved a lot of modeling time, though often their surface textures needed a lot of tweaking. We also used several images for surfacing objects as well.

CHARACTER ANIMATION

Nearly all of the character animation was done by Steve Segal, who also works for Pixar. Steve created his scenes with a main "scene" null object which had everything parented to it. Then, we just imported his scenes into a main scene. Each imported "sub-scene" could then be moved and sized as needed by merely manipulating the scene null. One particular scene had one character playing darts, another playing a video game, and two others running through the room. Each character was created individually.

For the most part, this worked fairly well, although timing was often a thorn in our sides. Although you can physically scale things, deferring action or changing the speed of movement was close to impossible because the character animation was so intricate that scaling the keyframes individually or globally usually threw everything off.

THE INTERNET'S ROLE

Internet email was used extensively throughout the project for transporting and sharing 3-D objects, scene files, and images. However, the process didn't work as smoothly as one would have hoped.

We initially ran into compatibility problems with "attached" files, mostly because everyone was using different email applications. Eventually, we worked out a solution, although this sometimes involved manually decoding files with a utility program. Towards the end of the project we ran into a total wall where I couldn't successfully decode binary files. We ended up using a courier. So much for the information highway!

WHEN I'M 64

When I first configured my Raptor, I asked around to see how much RAM I would need. Everyone told me that 64MB would be plenty, unless I got into "film" resolution stuff.

Well, as I began rendering the opening scene for the animation, I noticed that the hard drive light blinked quite a bit. Plus, if I attempted to multi-task anything, the system slowed to a halt, and sometimes apps would crash—both telltale signs of hitting virtual memory.

It was obvious that more RAM was needed and I ended up adding another 128MB for a whopping total of 192MB of RAM! Thank goodness that RAM prices have dropped so much. I paid a couple hundred dollars more for one-fourth the memory just a few years ago.

I had so much RAM that I could comfortably run three instances of Layout and Modeler, all at

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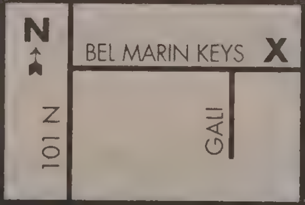

Dealer Inquiries Welcome *Volume Discount Available* *Price subject to change without notice* *Trademarks are registered by respective companies the same time. While one Layout was rendering scenes, I'd use another one to set up another scene. This often required setting up yet another scene to be imported into the one I was working on. It was crazy, and you'd have to be careful to avoid using the import/export object feature of Modeler, since it didn't know which instance of Layout to work with. Of course, with all this going on, performance suffered and things got a little gritty, but it wasn't too bad.

SINGLE-PLANT FARM

It didn't take too long to realize that rendering all of the animations in Flyer clip format was going to take too long, mostly because there is no way to batch-process Lightwave scenes. However, after a little experimentation, I determined that I could use Lightwave's ScreamerNet feature with a single CPU, even though it was designed to render scenes on multiple networked machines (commonly referred to as a "render-farm").

The ScreamerNet module, in reality, is just the rendering portion of Lightwave and has no interface. You can run it from a DOS prompt if you want, but you can also control it from Lightwave's main Layout program. Following the instructions in the manual, I set up a Windows icon which allowed me to quickly get it going. Then, I opened the ScreamerNet panel in Layout and initialized it. Of course, it only found one CPU, but it didn't seem to mind. After that, I just loaded in all of the scenes into a queue and started rendering.

The only glitch was that ScreamerNet only saved individual files. You cannot save directly into an animation file format (e.g., Flyer, AVI, etc.). This exponentially increased storage demands, and I only had about 500MB of free space. Initially, I would move files, via Syquest, over to the Amiga and create the Flyer clip there. However, eventually, a 4GB drive was added to the Raptor and it provided ample space.

SPREADSHEETS AND BATCH FILES

When we finally got to the point of rendering the final animations, there were thirty-plus scenes left to do. I created an Excel spreadsheet that listed each one, along with the base filenames used for the image sequences. I also had the number of frames and a spot for rendering time. After I'd input an estimated average single frame rendering time, the spreadsheet would estimate the total rendering time for the scene and for all remaining scenes—invaluable information.

After a little experimentation, I determined that I could use Lightwave's ScreamerNet feature with a single CPU, even though it was designed to render scenes on multiple networked machines (commonly referred to as a "render-farm").

I also linked the information in the cells to create the commands necessary to batch-process the frames into Flyer video clips. This required a separate command for every sequence of frames. I just pasted the resulting command lines to a blank spreadsheet and saved it as a text file and used that as the basis for a MS-DOS batch file.

I added a few "go to" statements that allowed me to skip or include rendered scenes. There were also a few scenes with stills (i.e., single images that are held for some designated length of time). The Flyer requires two images to create a still, but they can be identical. My batch file included lines to automatically duplicate the needed frames prior to creating the Flyer clip.

I just executed the batch file—while the Raptor was still rendering other scenes—and created Flyer clips for the scenes that were finished. The batch file also copied the clips to a Syquest cartridge. I then copied the clips to the Flyer and reviewed them. If they were okay, I copied the original clip files to a ZIP disk on the Raptor.

AUDIO

The entire show, of which my animation was only part, was edited on the Flyer. The audio was done on an Amiga 3000 using Studio 16 and the Sunrize AD516 audio board.

The A3000 chased a SMPTE signal played from a Flyer audio clip. This was pretty cool, because you could start at any place in the Flyer project and the 3000 would play the appropriate audio tracks. Why not use the Flyer's audio? Well, its icon-based interface, though simple to use, is poorly suited for lengthy, multi-layered projects. Studio 16 has a nice time-line interface.

INDISPENSABLE TOASTER

Aside from the fact that the Amiga was used to edit the show, it proved its worth and showed how indispensable it still was. The bottom line is that RGB computer video is a long way off from NTSC video. What you see is *not* what you get.

Single frames of animations were constantly brought back to the Amiga so they could be viewed on the Toaster. If it looked good on the PC's monitor, chances are it would look terrible on the NTSC monitor. If it looked like hell on the PC, it often looked great on the Toaster. I cannot imagine how anyone doing this kind of work can get along without a Toaster.

"Mr. Bill's Christmas Special" should be available this holiday season from Anchor Bay Entertainment. My work can be seen in the takeoff of "A Christmas Carol." Lightwave and the Amiga were also used liberally throughout other parts of the production. I hope you all get a chance to check it out! ■

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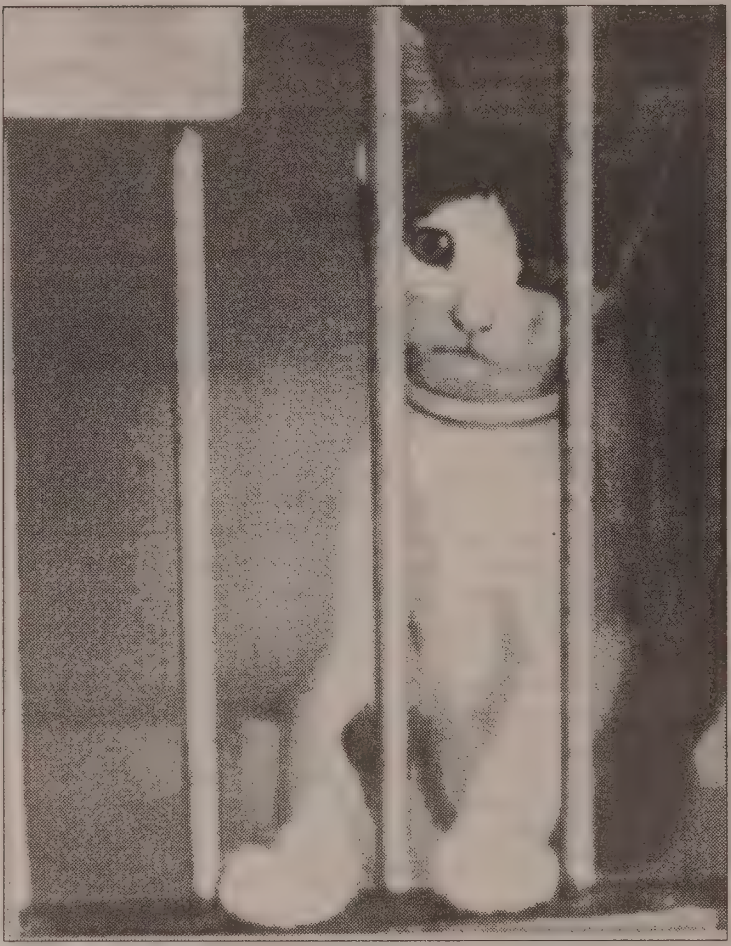

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Telecommuting *continued from page 64*

other facilities. The environments, call "CUbE," will help business travelers work more effectively while on the road.

The "CUbE" modular offices provide an integrated architectural and information environment that delivers simple, useful office support at any given time and location. The "CUbE" spaces are designed to be built into the heart of any hotel or other facility, and provide a specially designed area that blends the business features of an executive lounge with the comfort of a private office, including both basic and advanced communication, telematics, and other office services.

> If successful performance fails to win attention and appropriate rewards, your job is more in jeopardy from bad management than from telecommuting, and it's probably prudent to start looking for another position before the whole company goes under.

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Finishing that task, you refill your coffee cup and move to an an enclosed personal office that allows you more privacy and concentration. From there, you call your spouse and discuss the rest of your travel itinerary, then call your office and discuss with your company's top financial manager a new business opportunity that was offered to you earlier today.

Whatever the scenario, the idea of the CUbE is to provide individualized workspaces that busy business travelers can use when and where needed.

In its current design, the CUbE would include as many as three private mini-offices, each one about 8' x 8' square, complete with air conditioning, a desk, a PC, a laser printer, and a phone, plus a full complement of wall-jacks for plugging in laptop computers and modems. In one design, the walls are glass that can be switched from clear to opaque using charged liquid crystal. There would also be a mini-conference room equipped with a teleconferencing system to accommodate groups of up to six people, and a variety of open seating areas where guests can relax and work.

Like any office setting, the CUbE would provide a high-quality photocopier, a fax machine, plus generic office and shipping supplies.

The company intends to roll out the CUbE product by the end of 1996. For more information, contact a4A at (201)943-7154, fax: (201)945-5584. ■

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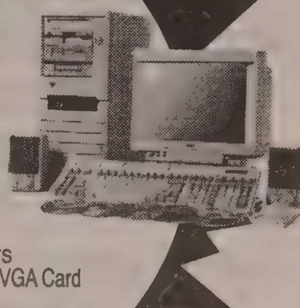

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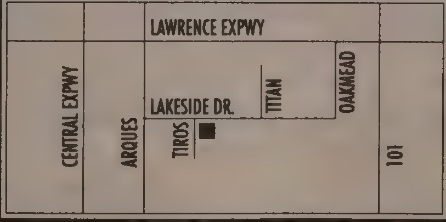

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UNIX *continued from page 70*

“Of course, UNIX has succeeded beyond its creators’ wildest dreams. I suppose that if, in 1970, you’d asked the creators of UNIX if their new operating system would still be in use in the year 2000, they would have laughed at you.”

The end of time was, how do you say it, ‘ordained’ by your own Bell Laboratories.”

The American was clearly flustered. “What’s he talking about?” he implored, looking around the room.

“The End of Time,” Hapless volunteered.

“I know he’s talking about the end of time, but that doesn’t make any sense.”

“Of course it makes sense!” Hapless responded.

A Brief History Of Time

Seeing that the American was no less puzzled, Hapless continued, “Look, the End of Time is a UNIX thing. UNIX has always kept track of the current time by counting the seconds since January 1, 1970. That date marks the beginning of time. The counter that holds the number of seconds between January 1, 1970 and the present is a 32-bit integer. The largest number you can store in a 32-bit integer is 2,147,483,648, so the end of time is 2,147,483,648 seconds after the beginning of time or 3:12:44 a.m. February 5, 2038. That would be GMT, of course.”

“Wait a minute. Are you telling me that UNIX computers can only keep track of time until February 5, 2038? That’s the dumbest thing I ever heard of.”

“Actually,” Hapless interposed, “it’s not so dumb when you think about it. When UNIX was created, they had no idea what sort of clock facilities the underlying hardware platforms might provide.

“One thing they could pretty well count on was that the CPU would provide some way of counting time intervals. However, CPUs measure time in their own arcane units, ticks of the CPU clock, and the duration of a clock tick varies from CPU to CPU.”

“Oh,” said the bushy-eyebrowed American.

“Since one of the goals of the UNIX system was portability,” Hapless continued, “timekeeping facilities needed to be a part of the operating system itself.

“Keeping track of the time of day by counting seconds may seem odd at first, but actually, it’s not too difficult to aggregate up from CPU ticks to some humanly usable measure like seconds. Once you’ve got the number of elapsed seconds since the beginning of time, you can convert that to whatever units the user might want.”

“So what will happen when we reach the end of time?” the American asked.

“Well, probably nothing,” Hapless replied. “First, the odds are pretty slim that there will be any UNIX machines running then. Apart from plumbing fixtures, it’s hard to think of any other appliance that might reasonably have a 68-year life span. Something new will probably come along and replace UNIX.

“Of course, UNIX has succeeded beyond its creators’ wildest dreams. I suppose that if, in 1970, you’d asked the creators of UNIX if their new operating system would still be in use in the year 2000, they would have laughed at you. Yet UNIX is so well-ensconced today that it will certainly see the year 2000. So let’s just assume that someone, somewhere will have a UNIX system running in February of 2038.

“Beyond that, it’s very likely that by 2038 the counter for the number of seconds elapsed since 1970 will be a lot larger than 32 bits. All the UNIX vendors are moving to 64-bit operating systems now, and they will probably just expand the time counter to 64-bits. This alone would push the end of time far enough into the future so that we could safely ignore it.”

The American sat down. “I see,” he said. The Swiss gentleman smiled. Hapless helped himself to another coffee.

Unobtrusive hands slid the bookshelves back into place, and outside the little train signalled its return with two loud blasts on the steam whistle. ■

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A Few Questions

THIS WAS WRITTEN ON THE ROAD WITHOUT THE USUAL NETWORK ACCESS THAT WOULD allow more attention to detail. Consequently, there are some unresolved questions that might be fun to resolve if you’ve got an Internet connection and a few minutes.

1. The phrase “Year 2000 Compliance” was used in a conversation that provided the raw material for this column. Is there an official (whatever *that* might mean) “Year 2000 Compliance” program or standard? If so, who administers it? What computers and programs are affected?

2. The wrap-around from 1999 to 1980 was done on a 486 notebook computer running Windows 95. What is known about dates wrapping around from 1999 to 1980 on DOS and Windows machines? (And why does the day wrap around to January 3?)

3. The calculation of the date for the end of time was done by hand. What is the actual end of time date (GMT)?

4. What happens when you ask a UNIX machine to calculate a date more than 2,147,483,648 seconds after the beginning of time? Does it wrap around? Does it return an error? If so, what?

5. Have the 64-bit UNIX implementations already extended the end of time? What is the date for the end of time if the system can count 64 bits worth of seconds?

—Bennett Falk

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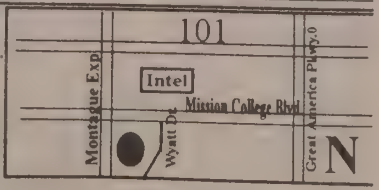
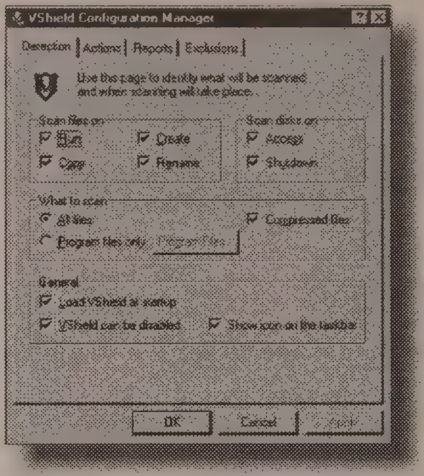


Small Office/Home Office

continued from page 91

Well, hopefully we have already done it. We have gone to the McAfee Web site (see Resources) and downloaded a copy of VirusScan.



Use this page to identify what will be scanned and when scanning will take place.

Scan files on
☑ Run ☑ Create
☑ Copy ☑ Rename

Scan disks on
☑ Access
☑ Shutdown

What to scan
● All files ☑ Compressed files
○ Program files only Program Files

General
☑ Load VShield at startup
☑ VShield can be disabled ☑ Show icon on the taskbar

With it we can clean up virus-infected hard and floppy disks. That means that VirusScan will look through all our files and find those that are infected with known or (in some cases) unknown viruses. A screen will pop up and tell us that a virus has been found, and ask us what we want to do about it. It will go on scanning, clean the file, delete the file, isolate it in a folder—your choice.

VShield, its resident portion, will keep an eye on all files as they are opened and will examine disks when they are first accessed. It is not complete protection, of course; nothing will ever guarantee protection from all possible viruses. But McAfee is very good at what it does, and they update their virus-fighting files monthly.

Do not risk your data, please. If you are not protected from viruses, go get VirusScan.

What does this service cost us? It's a little like public television. VirusScan is a shareware program, and it is downloaded by many people who never pay. But so many do pay that McAfee is now doing $90 million in annual sales. IDC reports that they have 68% of the worldwide anti-virus market. In other words, this strategy of giving away the product and getting paid for it later is working for the company. Now they are branching out. WebScan will intercept viruses as they come off the Web. BootShield will catch a boot virus (they allege) before it can boot.

Do not risk your data, please. If you are not protected from viruses, go get VirusScan. ■

RESOURCES:

DiskMapper
$39.95
Micro Logic Corp
1-800-342-5930
URL: *http://miclog.com*

VirusScan
(available for DOS, Windows 3.1, Windows 95, Macintosh, and Solaris)
$65.00 for a single user;
site licenses available
McAfee
1-800-866-6585
URL: *http://www.macafee.com*

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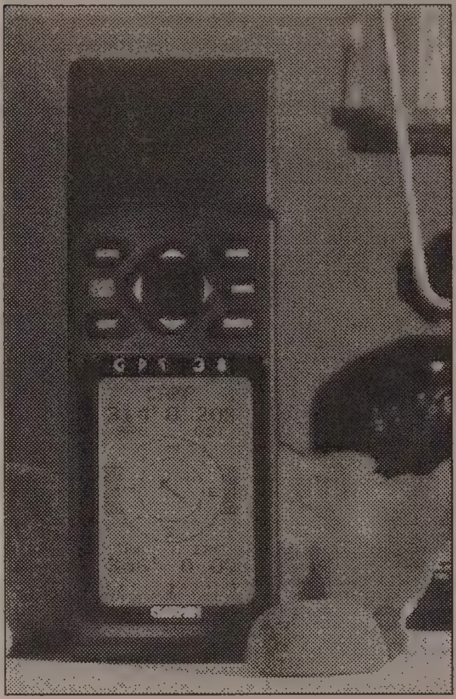
Pens & Palmtops

continued from page 104


Garmin GPS 38

The Global Positioning System, or GPS for short, is not just for people in planes, cars, or boats anymore; you can trot down today to your local wilderness supply store (at least the ones that are technologically savvy) and purchase a handheld, battery-operated, portable GPS unit for personal use.

but it does tell you where you are to within about fifty meters or so. This can be very useful when venturing off the trail even a short distance, climbing a mountain peak, or exploring a hidden valley. (One thing that holds these units back a little is that the military, for fairly understandable tactical reasons, does not want to give high-precision GPS capabilities to everyone, so there are random "errors" put into the signals. Otherwise, the units would be accurate to around fifteen meters. There is some speculation that this policy may change in the future, however.)

Portable GPS units can now be had for as little as $190 street; the smallest, most inexpensive, and most portable GPS unit I've seen so far is the Garmin GPS 38, which goes for around $190-$200 discounted. It weighs a mere nine ounces and measures 6.15" x 2" x 1.23", easily small enough to slip into a small pocket. It looks like a tiny remote control, and it's so small that there is hardly any room for both the controls and a display; however, the unit features a very usable four-direction arrow pad and six small additional mode buttons surrounding it, and a very readable LCD screen below that.

The user interface and software are well thought-out and powerful; in fact, the GPS 38, as one of the newest Garmin GPS units despite its "low-end" status, has most of the features that the more expensive units include. In fact, in most respects the GPS 38, 45 XL, and 90 are quite similar; there are only a few differences between them, the most important being that the 45 XL has an external antenna socket (good for car use) and the 90 can be used in a plane (the 45XL and 38 have a software limit of 104mph for marketing reasons).

You can hook up these portables to your laptop or PDA; if they have software which can talk to the GPS using one of the standard formats (the Garmin units use their own proprietary format, but they also support the standard NMEA and RTCM interface formats, so

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• Intel Advanced/EV/AS P-100Mhz/256K*	$399	$519
• Intel Advanced/EV/AS P-120Mhz/256K*	$419	$539
• Intel Advanced/EV/AS P-133Mhz/256K*	$469	$589
• Intel Advanced/EV/AS P-150Mhz/256K*	$539	$659
• Intel Advanced/EV/AS P-166Mhz/256K*	$669	$789
• Intel Advanced/ML/P-100Mhz/256K	$299	$484
• Intel Advanced/ML/P-120Mhz/256K	$319	$505
• Intel Advanced/ML/P-133Mhz/256K	$379	$564
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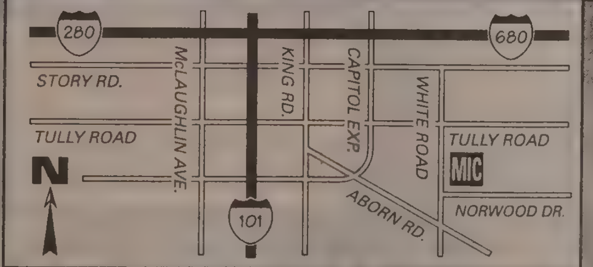

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they can talk to most off-the-shelf software), you can get added functionality, ranging from tracking your position in real time on a CD-ROM map to running freeware and shareware tools that help you log your course and other functions. In addition to CD-ROM based mapping software that has GPS support, there are some applications for the PC which will run on an HP 100 or 200LX, and the Psion PDA even has a ROM-based mapping card that can use GPS information in conjunction with Microsoft Automap.

But even without hooking them up to a computer, the Garmin GPS units have a lot of functionality built into them and are quite usable as stand alones.

In The Field

I had the opportunity to field test the Garmin GPS 38 in the mountains of northeastern California on a backpacking trip not too long ago. The Garmin handheld units use what is called sequential tracking; they have a single antenna that "listens" to only one satellite at a time, so the units sequence through the satellites (they can track as many as eight at once this way).

This differs from the other units, such as the Trimble or the Eagle Accunav, which track multiple satellites at once. The advantage of the Garmin scheme, however, is that it conserves battery power, allowing it to operate for as much as twenty hours at a stretch, and it also results in a much smaller unit. The disadvantage is that it takes longer to initialize the unit after you turn it on (i.e., a couple of minutes as opposed to around thirty seconds for the multi-tracking units).

I first tried using the Garmin in the car on the drive up to the trailhead, and found it to be workable if I place the unit on the dashboard, pushed fairly far toward the front of the car under the windshield. This way the unit was able to pick up a lot of the satellites through the windshield (the metal roof of the car was enough to block reception of some of the satellites). Of course, your mileage may vary depending on the angle of your windshield and other factors (such as whether your windows have any sort of coating). Placed properly, the Garmin tracked my position and speed quite precisely—it was almost eerie. The GPS 45 XL or the 90 can be used with an external antenna mounted on the exterior of your car for better automotive reception.

On the trail itself, the Garmin proved very useful. There were times when I was following a poorly-marked trail, trying to get to a particular landmark or clambering up a mountainside, and the GPS allowed me to easily find my location and the direction to my destination. It makes you feel safer heading off through poorly-marked territory to have a GPS in your arsenal of backpacking tools.

The Garmin also has many handy features; for example, you can use a "map" mode which tracks your progress visually and shows you various "waypoints" which you enter in. Another mode shows your current speed and heading, and shows you the direction and distance to your destination (also very useful when traveling in the car). You can program an itinerary of waypoints, and the unit will guide you, one waypoint at a time, toward your destination or use a special "automatic backtrack" mode that will take you back to your starting point.

I had a couple of problems which I managed to solve after some investigation. If you have a USGS map, you'll notice it uses two different coordinate systems; one is latitude and longitude, which is somewhat hard to use, but the other is a UTM/UPS format, which I found far more handy. UTM/UPS is a format based on meters; it lays out a rectangular grid which is a lot easier to read than the degree/minute/second format on a topographical map. I recommend using UTM/UPS for backpacking in general. (Unfortunately, the otherwise excellent DeLorme topographical atlases do not have UTM/UPS coordinate markings, reducing their effectiveness for use with GPS).

The other mystery has to do with this thing called a "map datum." I first noticed something strange as I walked past a small pond which was on my left when the GPS told me it was on my right. I then noticed a systematic error: my position seemed to be off by around a hundred and fifty meters, always in roughly the same southerly direction. I finally figured it out: apparently every map is drawn based on a particular "datum" which determines the coordinate system used to draw the map. The latest datum is World Geodetic Survey '84 which is the default for the Garmin units. But the USGS maps were originally drawn up early this century, and they used the older North American Datum '27. (This was marked in tiny print in the lower left corner of each map, but of course, until now, I had no idea what it meant). Thankfully, the Garmin has 105 built-in map datums (yes, they call them datums), including things like "Taiwan Grid" and "Afgooye", so wherever you happen to be in the world, you can find yourself.

Overall, I find the GPS to be a useful, enjoyable, and potentially life-saving gadget. ■

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RESOURCES:

CellTalk
PCS information clearinghouse Web site
URL: *http://www.celltalk.com*

Garmin GPS 38, 40, 45, 45XL and 90
Garmin, Inc.
1-800-800-1020

Garmin FAQ
Compiled by Lane A. Holdcroft, not affiliated with Garmin, Inc., URL: *http://www.eskimo.com/~klah/index.html*

PCS in California and Nevada
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URL: *http://www.pactel.com/about/PCS.html*
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PCS in Oregon, Utah, Hawaii, and several other states
VoiceStream
URL: *http://www.voicestream.com*
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Trimble GPS units
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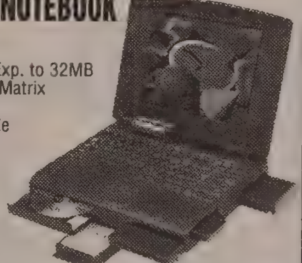

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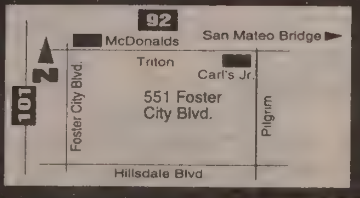

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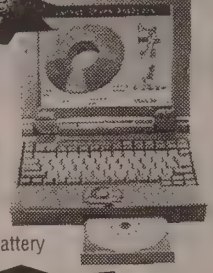

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Chicony 9750

Video Capture

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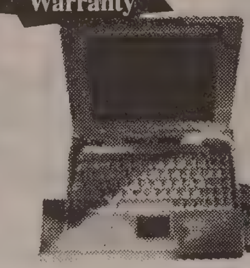

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- 256K L2 Cache
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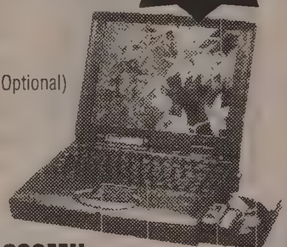

- Intel Pentium® 100/120/133/150/166/200MHz Processor Choices
- 8MB EDO RAM Standard, expandable to 72MB
- 256K L2 Cache
- 12.1" TFT SVGA/ 12.1" Dual Scan Display
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- Removable 1.0GB Hard Drive (810MB/1.0/1.35/2.1GB Optional)
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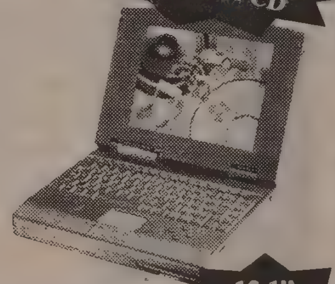

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Active Color	....$2170	.CALL

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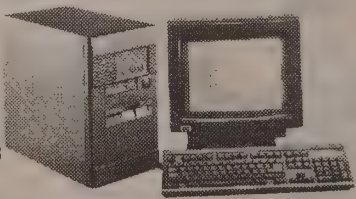

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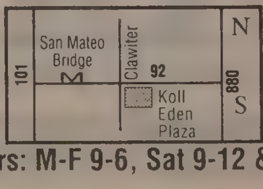

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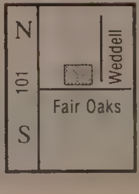

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PCMCIA LAN Adapter (10Base-T & Twist)	Add $110
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AC Adapter / Car Adapter	Add $85 / 100
Mini Docking Station	Add $220

(16MB/2.0GB/8X CD)

- **16MB EDO RAM** (32MB/64MB: +Call)
- **2.0GB EIDE**
- Matrox Millennium 2MB WRAM
- **8X CD-ROM**
- Creative Sound Blaster 32 PNP
- High Performance 120W Speakers
- TEAC 1.44MB 3.5" Floppy Drive
- Mid Tower Case with Power Supply
- Keytronics Keyboard for Windows 95
- Microsoft Mouse with Pad
- Free Microsoft Windows 95
- **Free Microsoft Encarta, Works, Money and Bundle CD**
- Monitor Sold Separately

P5-75/256K PCI (Intel Marl) ATX	$1,278
P5-100/256K PCI (Intel Marl) ATX	$1,308
P5-120/256K PCI (Intel Marl) ATX	$1,328
P5-133/256K PCI (Intel Marl) ATX	$1,378
P5-150/256K PCI (Intel Marl) ATX	$1,438
P5-166/256K PCI (Intel Marl) ATX	$1,558
P5-200/256K PCI (Intel Marl) ATX	$1,768
PP-200 PCI (Intel Venus) ATX	$1,948
PP-200 PCI (Asus)	$1,978
PP-200 PCI (Super Micro)	$1,948
Dual PP-200 PCI (Super Micro)	$2,708

UPGRADES

33.6 Internal Fax Modem	Add 78
Colorado Tape Backup T-1000	Add 118
Sony 17SFII Monitor	Add 714
Microsoft Office Pro (OEM)	Add 188

(16MB/1.2GB/8X CD)

- **16MB RAM** (32MB/64MB: Add $Call)
- **1.2GB EIDE** (1.6GB/2.0GB:+$30/$60)
- PCI IDE w/IO
- Diamond Stealth or ATI PCI 2MB
- **8X CD-ROM**
- 16-Bit Sound Card & 80W Speakers
- TEAC 1.44MB 3.5" Floppy Drive
- Mid Tower or AT Case with Power Supply
- Keytronics Keyboard for Windows 95
- Microsoft Mouse with Pad
- Free Microsoft Windows 95
- **Free Microsoft Encarta, Works, Money and Bundle CD**
- Monitor Sold Separately

P5-75/256K PCI (Intel Endeavor)	$988
P5-100/256K PCI (Intel Endeavor)	$1,018
P5-120/256K PCI (Intel Endeavor)	$1,038
P5-133/256K PCI (Intel Endeavor)	$1,088
P5-150/256K PCI (Intel Endeavor)	$1,178
P5-166/256K PCI (Intel Endeavor)	$1,298
P5-75/256K PCI (Intel Atlantis)	$1,028
P5-100/256K PCI (Intel Atlantis)	$1,058
P5-120/256K PCI (Intel Atlantis)	$1,088
P5-133/256K PCI (Intel Atlantis)	$1,128
P5-150/256K PCI (Intel Atlantis)	$1,198
P5-166/256K PCI (Intel Atlantis)	$1,318
P5-120/256K PCI (Intel Marl) ATX	$1,088
P5-133/256K PCI (Intel Marl) ATX	$1,138
P5-150/256K PCI (Intel Marl) ATX	$1,198
P5-166/256K PCI (Intel Marl) ATX	$1,318

(8MB/540MB/6X CD)

- Motherboard with CPU
- **8MB RAM** (16MB/32MB: Add $Call)
- **540MB EIDE** (850MB/1.2GB:+$20/$50)
- VLB or PCI IDE with I/O
- VLB or PCI SVGA Card w/1MB
- **6X CD-ROM** (8X: Add $20)
- 16-Bit Sound Card & Speakers
- TEAC 1.44MB 3.5" Floppy Drive
- Enhanced Case with Power Supply
- Mitsumi Keyboard for Windows 95
- Microsoft Compatible Mouse with Pad
- Free PC DOS and Microsoft Windows
- **Free CD Deluxe Pack**
- Monitor Sold Separately

486DX2-80/256K VLB or PCI	$558
5X86-133/256K VLB or PCI	$578
6X86-P133+/256K PCI	$688
6X86-P150+/256K PCI	$708
6X86-P166+/256K PCI	$768
P5-75/256K PCI (Intel Zappa)	$688
P5-100/256K PCI (Intel Zappa)	$718
P5-120/256K PCI (Intel Zappa)	$748
P5-133/256K PCI (Intel Zappa)	$798
P5-75/256K PCI*	$678
P5-100/256K PCI*	$708
P5-120/256K PCI*	$728
P5-133/256K PCI*	$778
P5-150/256K PCI*	$838
P5-166/256K PCI*	$958
* Intel Endeavor/Atlantis M/B	+$60/70

SUPER SALE

8MB-2x32 (72 Pin) Memory	**$38**
• 4MB-4x2 (30-Pin)	$23
• 8MB-2x32 (EDO)	$40

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• 5X86-133/256K VLB	$94
• 6X86-P150+/256K PCI	$238

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Mitsumi 8X CD-Rom IDE Int	**$96**
• NEC 6X CD-Rom IDE Int	$70
• Mitsumi 12X CD-Rom IDE Int	$188

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Mon-Fri: 8:30am-6pm,
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Fax Modem 33.6w/V.34 Int	**$78**
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P5-133/256K PCI	**$428**
• P5-150/256K PCI	$498
• P5-166/256K PCI	$608

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Diamond Speed Star PCI 1MB	**$38**
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• Matrox Millennium PCI 2MB w/sys	$178

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(Milpitas & San Francisco)

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US Robotics 28.8 Winmodem	**$96**
• Sportster 28.8 (33.6 Data) w/V.34 Int	$130
• Sportster 28.8 (33.6 Data) w/voice Int	$146

INTEL ENDEAVOR M/B + CPU

P5-120/256K PCI	**$308**
• P5-133/256K PCI	$368
• P5-166/256K PCI	$578

SUPER SALE

Viewsonic 15ES Monitor	**$316**
• Viewsonic 17GS	$568
• Viewsonic P810 21"	$1,516

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• 1.2GB EIDE Hard Drive	$164
• 2.0GB EIDE Hard Drive	$226

PENTIUM PRO M/B +CPU

Intel Venus PP-200 ATX	**$918**
• Asus PP-200	$978
• Super Micro PP-200	$938

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Sony 15SFII Monitor	**$434**
• Sony 17SFII	$714
• Nanao T2-17 TS	$864

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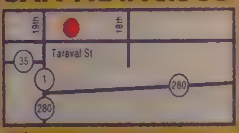

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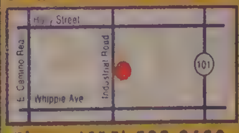

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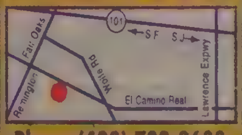

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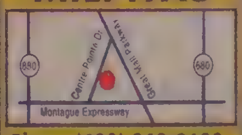

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- 16MB 72 Pin EDO RAM
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- 80 Watt Pair of Speakers
- 104 Win95 Keyboard
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- 16MB EDO 72 Pin SIMMs (2x32 60 EDO) (Optional: One 16MB Long 168 Pin DIMM + $40)
- PCI Accelerator Video 64 Bit w/2MB
- 15″ Digiview NI 1280x1024 w/OSD MPRII
- 33.6K Fax/Modem
- Mini Tower Case w/230w PS
- MS Compatible Mouse

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- 16MB EDO 72 Pin SIMMs (2x32 60 EDO) (Optional: One 16MB Long 168 Pin DIMM + $40)
- Diamond Stealth 64 w/2MB DRAM
- 15″ Digiview NI 1280x1024 w/OSD MPRII
- Supra 33.6K Fax/Modem w/Voice Int.
- Mini Tower Case w/230w PS
- Plug and Play BIOS
- 1.44MB Floppy Drive
- 256K Pipeline Burst (512K PB $20)
- 1.6GB EIDE Hard Drive
- PCI Enhanced IDE w/2 16550 Serial, 1 Parallel
- 8X EIDE CD-ROM Toshiba
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- 80 Watt Pair of Speakers
- 104 Win95 Keyboard
- MS Compatible Mouse

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1996 Grolier's Encyclopedia
Mavis Beacon Teaches Typing
World Atlas, US Atlas 5.0
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*Software and manual will be included free while supplies last.

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4x32 60ns (16M)/EDO	$105
8x32 60ns (32M)/EDO	$210
DIMM price	**$Call**

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486 PCI/VLB w/256K Pipeline Burst	$75
Triton I FX w/256 Cache	$90
Triton III VX w/256 Cache	$95
Triton III VX v.2 w/256 Cache Pipeline Burst	$105
Tuscon w/256K Cache	$210
Marl w/256K Cache	$155
Venus w/256K Cache	$285
Intel Endeavor w/256K SRAM, Sound Blaster 16 Vibra	$190
Intel Endeavor w/256K Pipeline Burst, Sound Blaster 16	$195
Intel Endeavor w/256K Pipeline Burst, w/o S.B. 16	$170
Intel Atlantis w/256K P.B., SB 16, VGA	$240
Marl ATX Pentium® Pro	$170
486 256K Pipeline Burst	$20
Pentium® 256K Pipeline Burst	$20
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486 PCI/VLB AMD 120 w/256K cache	$100
486 PCI/VLB AMD 133 w/256K cache	$110
Triton III VX P-100/120 w/256K	$220/240
Triton III VX P-133/150 w/256K	$285/355
Triton III VX P-166/200 w/256K	$465/660
Marl ATX Pentium® Pro 200	$745
486/586 256K Pipeline Burst	$20/20
586 512K Pipeline Burst	$30

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ISA Goldstar IDE	$15
ISA DTC IDE	$15
VLB DTC EIDE w/16550	$15
PCI Tyan EIDE w/16550	$30
Adaptec 2940U/2940UW	$165/210

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1.2 Seagate	$170
1.2 WD/Seagate	$195/170
1.6 Western Digital	$215
2.1 Seagate/WD	$245/265
3.1 Western Digital	$385
4.0 Quantum (Grand Prix) Wide	$770
4.0 Quantum (Atlas) Wide	$790

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Toshiba 8X	$100
Teac 8X	$100
Acer 8X	$95
NEC 8X SCSI	$220
Yamaha CDR 2/4 w/kit	$580
Phillips CDR 2/4 (drive only)	$440
Phillips CDR 2/4 w/kit	$540

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Sound Blaster 16 PnP	$70
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Diamond Stealth 64 Video 1M/2M	$75/95
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Diamond Stealth 64 3D 2M EDO	$110
Diamond Stealth 64 3D 2M VRAM	$170
Diamond Stealth Video MPEG	$100
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WinBoost (Mach 64) 1/2M DRAM	$90/110
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Sony 15SX1 15″/15SF2 15″	$375/455
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Enhanced 104 Win95 Keyboard
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Mini Tower Case with 230W PS
Enhanced 104 Win 95 Keyboard
Microsoft Serial Mouse with Pad

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Mini Tower Case with 230W PS
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MAG 15" 1595 Monitor
Mini Medium Tower Case with 230W PS & Display
Keytronic 104 Win 95 Keyboard
Microsoft Serial Mouse with Pad

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Pentium®150MHz	$1419
Pentium®166MHz	$1559
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Teac 8X IDE (140ms)	$108
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Teac 6X SCSI	$165
Nec 8X SCSI	$198
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Zoltrix 33.6 Int Fax/Modem/V.34	$85
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Supra 33.6 Fax/Modem/Voice	$109
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MS Windows NT 3.51 Station CD (W/S)	$159

Call for Software Not Listed

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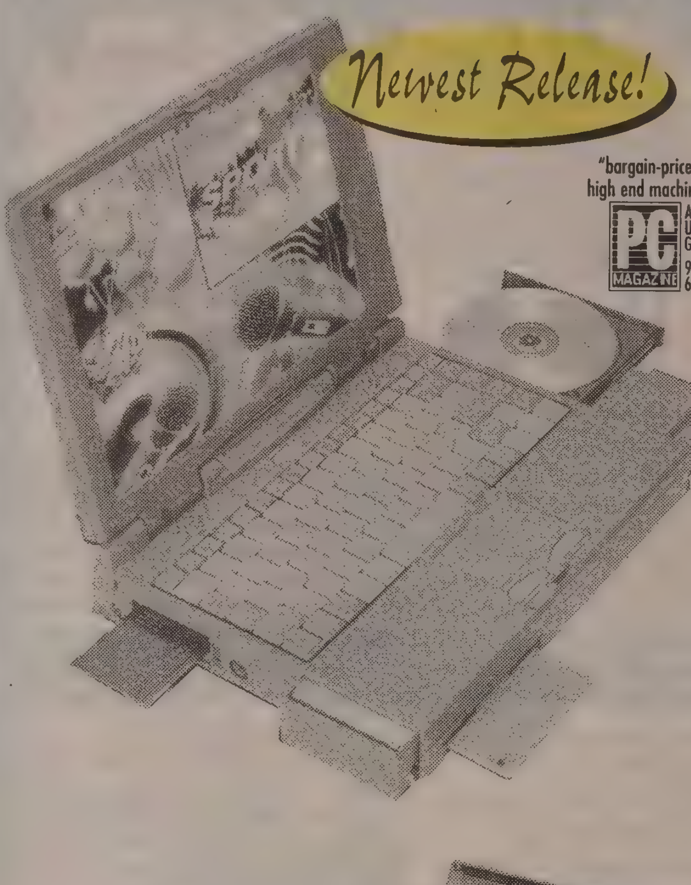

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DFI 7200

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- 2 Type II and 1 Type III PCMCIA Slots
- I/O Ports
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- 6X CD ROM Drive Optional
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- Speakers & Mic
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- Full Size Docking Station

DFI 6600

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Specifications:

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- 32-Bit Local Bus with 2MB Video RAM
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- 3.5" 1.44MB Removable Floppy Drive
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- Built-In 16 Bit Audio Compatible with Sound Blaster 16 and Win SS
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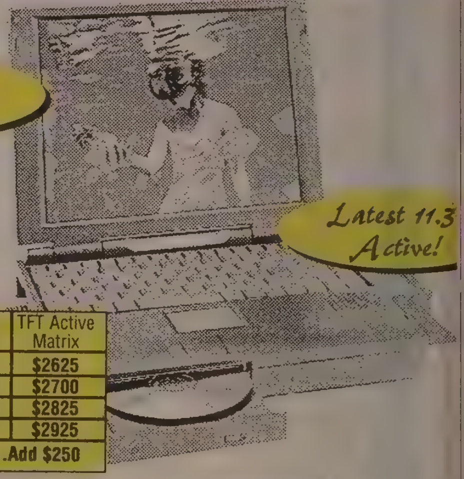

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Pentium® 120MHz	$2375	$2825
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12.1" Active Matrix . . .Add $250		

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- 1.44 MB Floppy Drive
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- PCMCIA Slots (2 Type II or 1 Type III)
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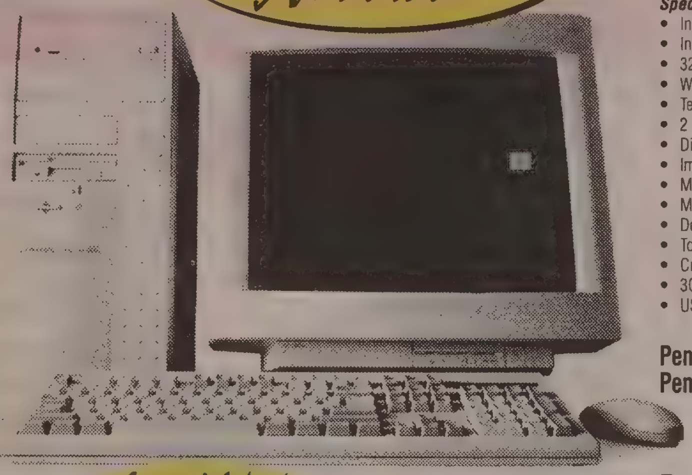

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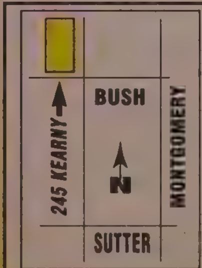

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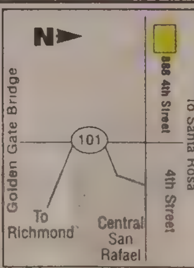

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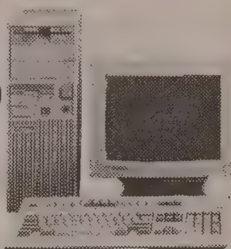

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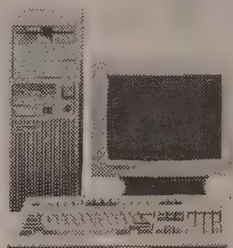

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- Viewsonic 15ES 15" SVGA Monitor
- 105 Enhanced Keyboard
- Microsoft Windows 95 & Mouse
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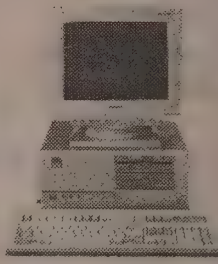

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•Iomega Jaz Drive Internal	$399
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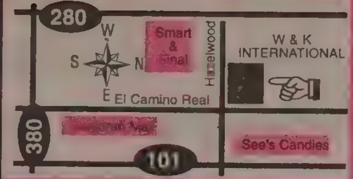

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- Pontec 180W 2-Way Amp Speakers
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- 256K Cache
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- US Robotic Sportster 33.6 v.34 S/R Fax Modem

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- 3 PCI, 3 ISA, 1 Shared Slot
- Supports 150/180/200MHz CPU's
- Intel 440FX Chipset
- Supports Pentium® Pro Processors 150/180/200MHz
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- Keytronic 104 Windows 95 Keyboard
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- Intel 440FX Chipset
- Pentium® Pro Processor-150/180/200MHz
- 256K Cache
- Intel Heat Sink & Cooling Fan/Alarm B/B
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- Mitsumi 1.44MB 3.5″ Floppy Drive
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- Tech Media 15″ .28NI 1024X768 60Hz Digital Monitor
- Qtronix 104 Windows 95 Keyboard
- Logitech Mouseman 3-Button PS-2 Mouse
- Deluxe ATX Form Medium Tower Case 230W U1 CSA Power Supply
- Toshiba 5602B IDE 8X Speed 145ms 1200KB CD-ROM
- Crystal 16 Bit Sound Card
- Pontech 60W 2-Way Amp Speakers
- Supra 33.6 v.34 w/Voice S/R Fax Modem
- Cyber CD 10 Pak
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- Microsoft 95 w/CD & Manual

Pentium® Pro Processor 200MHz $2203
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NEW

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- Intel Advanced/MI Motherboard
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- Pentium® Processor-Based ATX Board
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- Supports Universal Serial Bus
- Supports Pentium® Processors 75/90/100/120/133/150/166/200MHz
- Pentium® Processor-75/100/120/133/150/166/200MHz
- 256KB Pipeline Burst SRAM Cache
- Heat sink & Cooling fan
- 16MB 60ns EDO RAM up to 128MB
- Western Digital 2.5GB Enhanced IDE 10ms Hard Drive
- 2 Hi-Speed (16550 Fast UARTs) Serials & 1 Enhanced Parallel
- Mitsumi 1.44MB 3.5″ Floppy Drive
- Matrox MGA Millennium PCI 2MB Window RAM
- MPEG, Video Accelerator & MGA Real-Time 3D Graphics Video Card
- MAG 17″ .26NI 12800x1024 60Hz Windows 95 Plug & Play Monitor
- Keytronic 104 Windows 95 Keyboard
- Logitech Mouseman 3-Button PS-2 Mouse
- Deluxe ATX Form Medium Tower Case 230W U1 CSA Power Supply
- Toshiba 5602b IDE 8x Speed 145ms 1200KB CD-ROM
- Creative Lab Sound Blaster 32 PnP Stereo Sound Card
- Pontec 180W 2-Way Amp Speakers
- Microsoft New Home CD Package
- Microsoft Encarta 96, Microsoft Works, Microsoft Money, Golf, Creative Writer, Explores The Solar System, CD Sampler
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NEW

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- Intel 430HX Chipset
- PC '95 Compliant Including Windows
- Supports Universal Serial Bus
- Supports Pentium® Processors 75/90/100/120/133/150/166/200MHz
- Pentium® Processor-75/100/120/133/150/166/200MHz
- 256KB Pipeline Burst SRAM Cache
- Heat sink & Cooling fan
- 16MB 60ns EDO RAM up to 128MB
- Fujitsu 1.0GB Enhanced IDE 10ms Hard Drive
- 2 Hi-Speed (16550 Fast UARTs) Serials & 1 Enhanced Parallel
- Mitsumi 1.44MB 3.5″ Floppy Drive
- Diamond Stealth 64 PCI 2MB DRAM Screaming 64 Bit Graphics
- Accelerator True 16 Million Colors
- Sony 15″ .25NI 1280x1024 60Hz Windows 95 Plug & Play Monitor
- Qtronix 104 Windows 95 Keyboard w/Wrist Rest
- Logitech Mouseman 3-Button PS-2 Mouse
- Deluxe ATX Form Medium Tower Case 230W UL CSA Power Supply
- Toshiba 5602B IDE 8X Speed 145ms 1200KB CD-ROM
- Creative Lab 16 Bit Sound Card
- Fly 120W 2-Way Amp Speakers
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- Yamaha OPL 3IS Chipset, Supports Midi Keyboard
- Pontech 80W 2-Way Amp Speakers
- Microsoft New Home CD Package
  Microsoft Encarta 96, Microsoft Works, Microsoft Money, Golf, Creative Writer, Explores The Solar System, CD Sampler
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intel inside
pentium PROCESSOR

Do you see it being used mainly by the travelers themselves, or by travel agencies?

I see it being used more by the travelers themselves. Ever use a travel agent for a vacation? It's unsatisfying. You show up, and the hotel down the street is nicer than what you got, and cheaper. The agents aren't necessarily working for you, and don't necessarily have all the information.

And they're certainly not telling you all the information.

Yeah, they're not telling you all the information.

I think it's for the affluent. That's the market.

The other side of that is that all the luxury hotels, by and large, don't have a lot of computer systems, so in some sense this is an automation play for them and with them. We have an engineering challenge there—which is great, because that's a barrier to entry, to interface all this stuff to their existing systems, all the Internet stuff to their existing systems without disturbing them.

It's just like the CyberCash thing—we had to go in and make sure that everything we did required no change from the banking world.

The thing that's nifty at Women's Wire from my standpoint is that in the last six months we have actually gotten advertisers who are Procter & Gamble and Lancôme and Ford—consumer products, not just another disk drive manufacturer.

Otherwise it would never fly.

It would never happen, because they're never going to change.

That's the Places to Stay story. The guys who are running it came out of Disney Hotels, very savvy; they understand marketing and understand hotel motivations and resort stuff and everything like that. They came out of the resort world. I have a lot of confidence in them, and they've hired some great technical people to put this goo together, as it were.

The business model is, Places To Stay gets commissions from the hotels, much in the manner of a travel agent, and it's free to the customer?

Yes.

Because every now and then somebody says hopefully "Well, are people willing to pay for stuff on the Net yet?" and the answer still seems to be no. Not users, anyway.

Hell no.

They're paying the ISP, they're paying the phone bill, they don't want to get dinged for using the Web site.

Right.

What kind of reception have you gotten from hotels so far? You seem to have California and Hawaii up and running on the site...

Right, that's where we've been able to travel to and sign people up. Hawaii and California are not two of the worst travel destinations. They're not everything, but that's what we're doing now to wring out the system.

Now Women's Wire—we're really starting to catch on there and figure out what people are interested in seeing on the Web, and what kind of advertisers and sponsors are starting to finally get interested.

The difference between and advertiser and a sponsor—a sponsor owns a topic area. They'll float ads in and out of it, but it's always "Levi's brings you" whatever.

Or "Lifetime TV brings you," which I saw on some pages.

Right. That's a different kind of sponsorship, the Hallmark Hall of Fame kind of thing.

The thing that's nifty at Women's Wire from my standpoint is that in the last six months we have actually gotten advertisers who are Procter & Gamble and Lancôme and Ford—consumer products, not just another disk drive manufacturer.

Is that because they're finding big enough numbers to be worth their while, or targeted enough demographics, or what?

Targeted enough demographics. They're sampling, and they're buying, and they're re-upping month to month and making longer commitments. So it's working. It's not an avalanche yet, but it's working.

The Women's Wire thing has been a wonderful experience in terms of trying to figure out "What is content on the Web?" Our original stuff with putting it on MSN and CompuServe and AOL—that's all vanished.

It's now Web-only?

It's Web-only. Initially it was a private system, before the Web.

At what point did you come in?

I was actually the first outside investor. I've been with them a couple years. Prior to that Ellen Pack and her family had been the money behind it.

Given an infinite number of investment opportunities, why that one?

The audience. Women have this very interesting characteristic—unlike men, they actually identify with their gender. Men don't bother. Men have so many other identities that they don't think that way.

But you can get at women by appealing to them as being women. They have seventy-five other things that they are interested in, but you can start through that gate.

That's a branding opportunity. So I just said, "Hell, half the goddam world. What a lovely brand to have. Wonder what we can drive through it?"

That was when there were very few women on the Web. I wasn't concerned about that—I like to see things before other people do. I knew that women, once exposed to it, would not find the technology any more daunting than a man would.

There's no gender difference in ability to snuggle up to the stuff.

That's what I saw as the opportunity. I had worked with Marleen McDaniel in a prior life at Interop—she had actually been the one to introduce me to Women's Wire—I forget what she was doing at the time, she wasn't there, though.

So I poked around and said, "Okay, I'd be interested in putting money in, but it needs some real management, would you be interested in being in management?" She came in for a while as just a marketing consultant, and then pretty soon she was the boss, and then more serious money came in.

What worked and didn't work about the whole MSN/CompuServe/AOL phase—why did it seem like a good idea at the time, and then not?

Well, it was a good idea because they can bring you a lot of eyeballs. They're a channel.

Analogous to a TV channel.

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- 14" SVGA Monitor .28dp NI
- Local Bus Video Card w/1MB
- 101 Keyboard
- Mini Tower Case
- Windows 95
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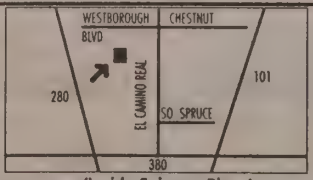

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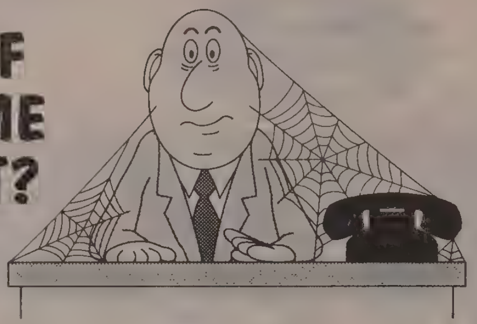

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Right. The basic problem with all of them is they wanted too much money. There wasn't any left over for the little guys.

That's not saying that they're wrong—they may be right or wrong, but a lot of the content guys are moving away from the proprietary systems. The big newspapers...

Because a percentage of hourly traffic fees is not enough of a revenue stream?

Right.

This is the Wild West. If you don't change your business plan every six months, you're dead.

For example, Infoseek has had to do exactly that—you start out as a search engine and the next thing you know you're selling ads and providing content and all kinds of stuff. How has that worked?

Steve [Kirsch, Infoseek's founder], very early on, put together a great technology and planned on selling it by the drink. I was doing CyberCash about the same time, and said, "Steve, we're not going to be ready for you. Our technology's got another year or two to go."

Another of those infrastructure dependencies.

Absolutely right. So then we tried to sell it at a medium-to-high subscription rate, and people just weren't ready to buy on that, so he switched to an advertising model. He didn't sit there and be stubborn, even though frankly I think he probably had the cash to wait it out. But I think that would have been dumb.

He just changed his business model, and now he's changed it again. He's trying to bring in more and more features, and becoming a publisher. They're all doing that now, and I think that's the correct thing to do.

Other than telling earnest young entrepreneurs not to come to you with business plans right now, do you have any advice for them?

Well...I'd say that the game is changing to one where content is the value-add—in other words, get audience, right?

The hard part on that for the entrepreneur is to say, "Okay, how can I get paid? How big do I have to build myself? Do I have a ten-million-dollar company, a one-million-dollar company, hundred-million-dollar company, a one-billion-dollar company, all of those—or do I have a component that I can cross-sell, like syndicating?"

Entrepreneurs always think that they're going to build a whole universe, and I'm thinking there are crucibles into which they should be thinking about selling their stuff, rather than them becoming their own major brand.

Not everybody can be Netscape, for instance.

Right. Just Microsoft. They can be Netscape, and no one else can! (laughs)

Everyone else has vanished from that playing field.

What I'm saying is, build something, and then sell it like salami. Slice it away, don't think in terms of building your own huge brand. Brands are pretty much out there. There'll be room for a few more brands, but the big guys, the publishers, are going to figure it out. Build something and try to sell it to them. Don't try to compete.

So you'd advise figuring out where you are in the food chain and exploiting that.

Absolutely right! ■

continued on page 244

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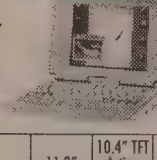

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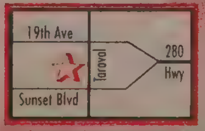

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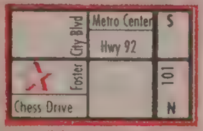

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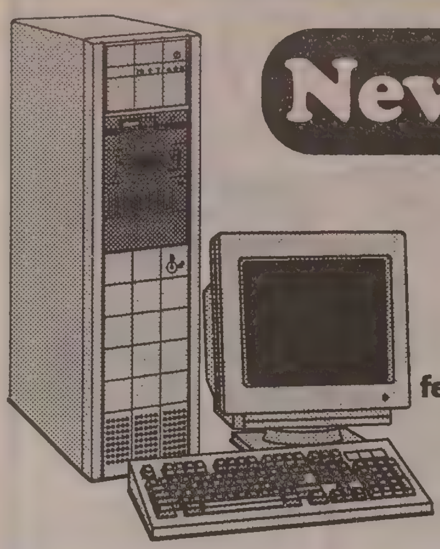

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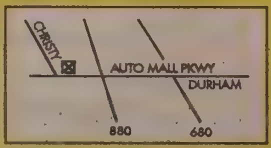

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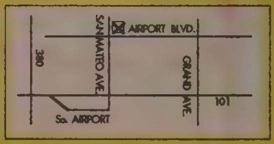

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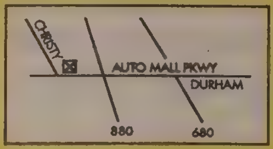

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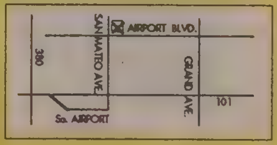

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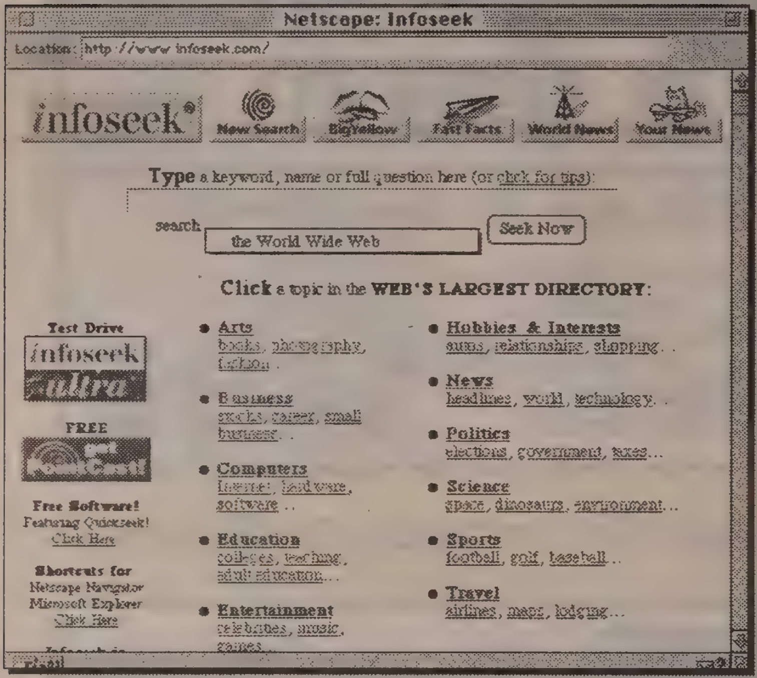
Tales Of The Wild West *continued from page 240*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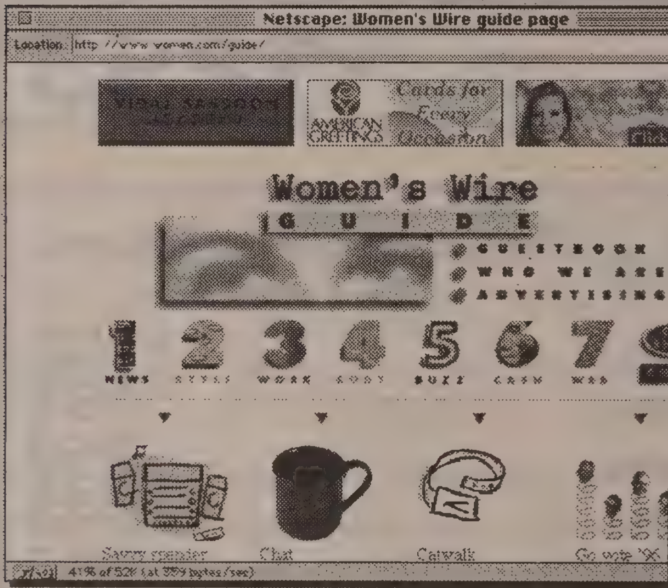
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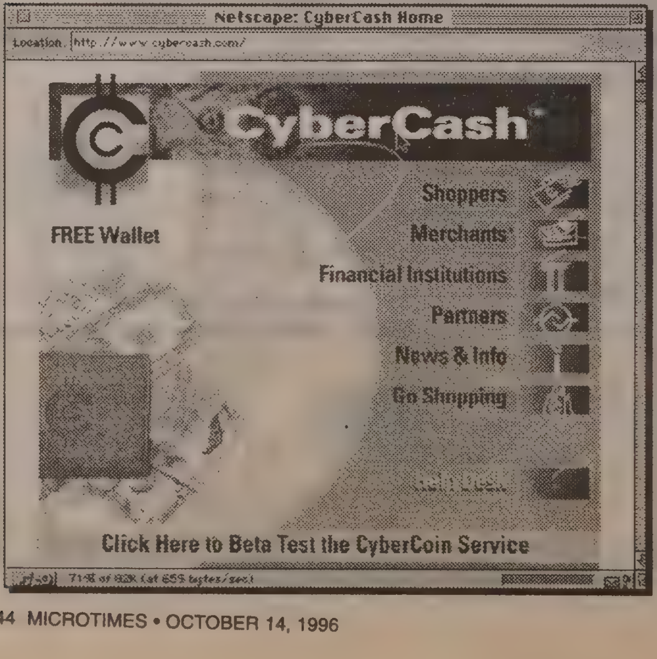
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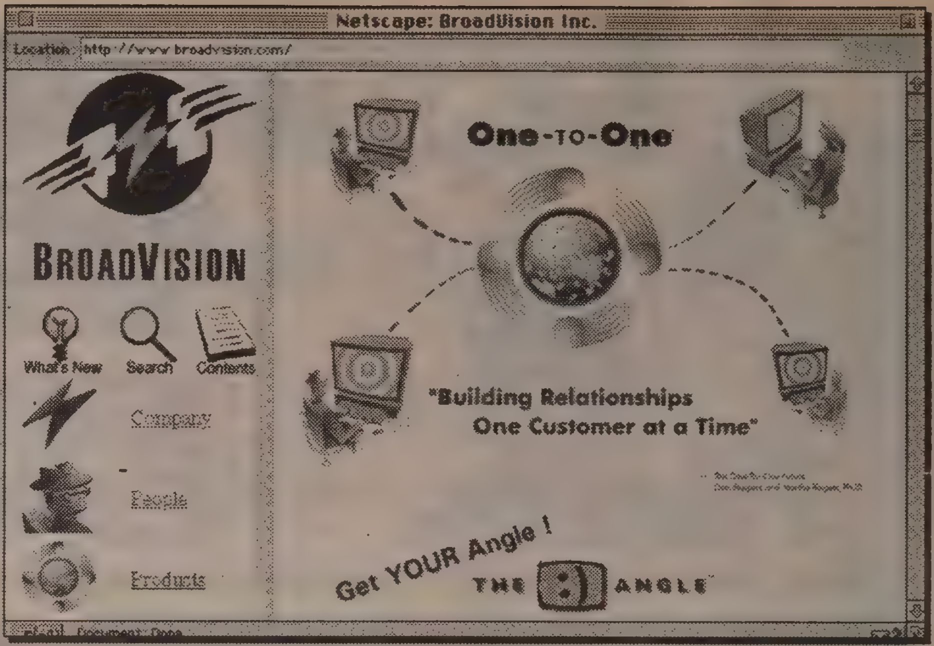
Netscape: BroadVision Inc.
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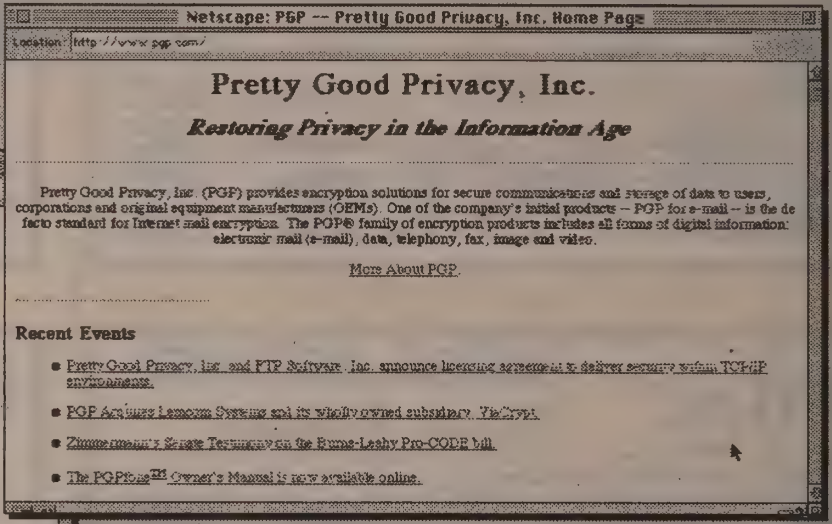

Netscape: PGP -- Pretty Good Privacy, Inc. Home Page
Location: http://www.pgp.com/

Pretty Good Privacy, Inc.

Restoring Privacy in the Information Age

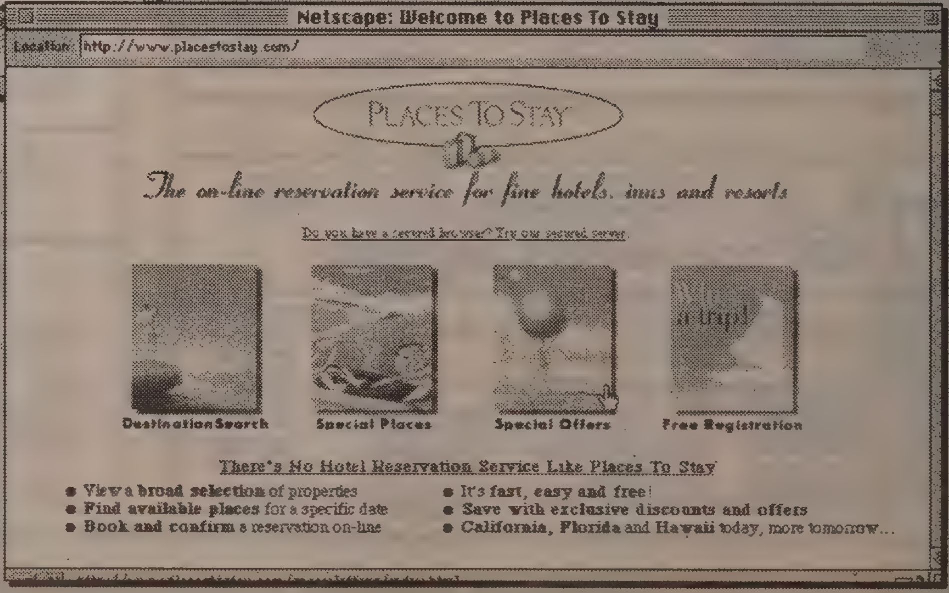
Pretty Good Privacy, Inc. (PGP) provides encryption solutions for secure communications and storage of data to users, corporations and original equipment manufacturers (OEMs). One of the company's initial products -- PGP for e-mail -- is the de facto standard for Internet mail encryption. The PGP® family of encryption products includes all forms of digital information: electronic mail (e-mail), data, telephony, fax, image and video.

More About PGP.

Recent Events

- Pretty Good Privacy, Inc. and FTP Software, Inc. announce licensing agreement to deliver security within TCP/IP environments.
- PGP Acquires Lemcom Systems and its wholly owned subsidiary, ViaCrypt.
- Zimmermann's Senate Testimony on the Burns-Leahy Pro-CODE bill.
- The PGPfone℠ Owner's Manual is now available online.

PGP, Inc. is a new company with the mission of commercializing Phil Zimmermann's popular Pretty Good Privacy software.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PC Computer June 1996: "6x86 based C166 + PowerStation perfomed better than 166MHz Pentium and costs nearly $1500 less

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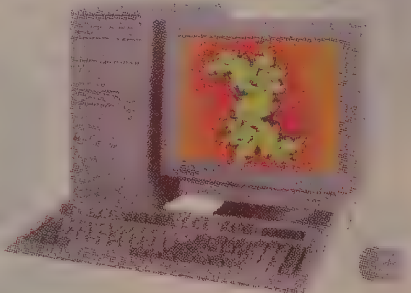

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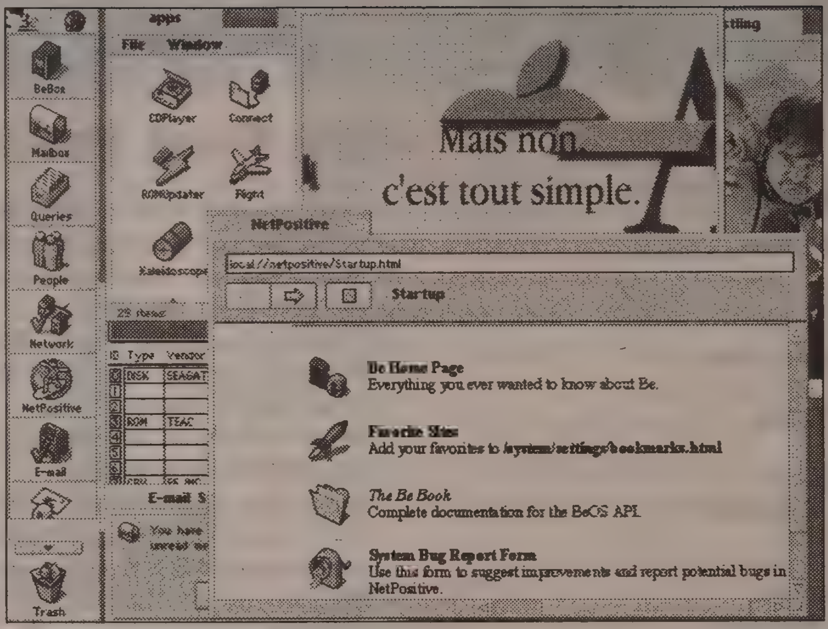

Be Home Page
Everything you ever wanted to know about Be.

Favorite Sites
Add your favorites to **/system/settings/bookmarks.html**

The Be Book
Complete documentation for the BeOS API.

System Bug Report Form
Use this form to suggest improvements and report potential bugs in NetPositive.

Figure 1: BeOS

Beta software releases are great for developers. The action expands the testing base for both hardware and software; it can uncover bugs or incompatibilities that might be difficult or impossible to find with an in-house or small testing release.

But the pioneers of betaware had to struggle with a primitive software distribution system: regular shrink-wrap sales; floppy-based demo versions and shareware; and bulletin board systems. These early efforts were well before CD-ROMs became standard equipment and electronic services were cheap enough for the masses.

Nowadays, the Internet has changed the picture and scope for betaware. Releasing software bit-by-bit is common with Internet software. When developers add a new feature, a new version is tossed out immediately over the Net for users to try. The update is then promoted on the company's Web site.

This practice is now glorified by the entire computer industry and called: faster "time to market." This means companies should get products out the door more quickly. This is a worthy goal and a great idea.

But it can come at the cost of user productivity, when the beta software installations rack up a constant series of crashes. Hard, hard crashes. And the actual culprit may be hard to identify, since users may run several prerelease programs at a time. Support of the prerelease versions by the vendors is often spotty.

Developers should try to realize that a variety of users will run prerelease software, some of whom will not recognize the difference between beta and final versions.

Users need to recognize that with the increased number of systems and applications, and more and more complex software, quality will take a hit. The Pandora's box of betaware is very attractive, but may hold a dark side.

> Traditional **shrink-wrapped** software and formally released Internet programs are the **"real"** versions; the beta versions are supposed to be for the **final stages of testing.**

Bytes and Pieces

Here are a few small items that floated into my emailbox this past month:

•Motorola's Computer Group division recently took the wraps off several new lines of Mac clones which it will ship in November under the StarMax label.

The entry-level StarMax 3000 desktop systems will be based on 160- or 200-MHz PowerPC 603e processors, and they will come standard with three PCI slots, 16 megabytes of RAM, 8x CD-ROM drive, and a 1.2GB hard drive. Systems with a minitower enclosure will offer a 2GB hard drive and five PCI slots. The models will cost from $1,595 to $2,395.

Based on 160- and 200-MHz PowerPC 604e chips, the StarMax 4000 models will also come in both desktop and minitower versions. The machines will have price tags from $2,395 and $3,595.

Motorola said it will target SOHO and small businesses with the models, which will be sold in retail stores under private brands and mail order.

•The Mac rumor groups were recently still rife with speculation over reported deals between Apple and Be Inc. As I mentioned last month, in August the startup showed BeOS, the Be operating system, running on a Macintosh clone. Be expects to release its software for some PCI Macs early next year.

The speed and UNIX capabilities of Be's operating system have captured the imagination of many BMUGers. Since it takes complete control of the Mac's hardware, users would have to reboot to switch between Be and Mac systems.

As you can see in Figure 1., the Be interface comes with an icon application launcher and an integrated Web browser. While the screen shot shows a video running in the background, the Be operating system does not currently support QuickTime.

I've heard that some BMUGers are forming a new special interest group for the operating system.

•Most Mac users have a set of the Apple logo stickers that come with Macs. Apple now has special versions for car rear windows. The new stickers are static-cling, zero-glue decals for the inside window and do not leave a mess like the previous flavors. A pack-of-five is available from 1-800-373-0877. ■

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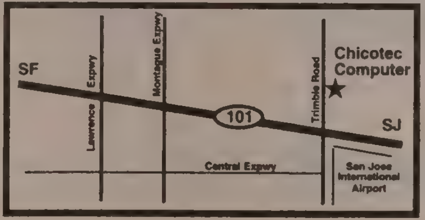

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BMUG is an educational, nonprofit, consumer advocacy group organized to share information and provide critical direction to users and developers in the computer community worldwide. It is an independent advocate, not affiliated with any manufacturer, delivering trustworthy information and useful products.

Like any growing organization, it is many different things to its fifteen thousand international members. BMUG supports many special interest groups (SIGs), 18-line Planet BMUG and 11-line BMUG Boston BBSes, a software library, weekly meetings, publications, and much more. BMUG also puts out a semi-annual 500-page book that we call our "newsletter."

Our motto continues to be: *We're in the business of giving away information.*

Come and join in the dialogue at the BMUG main meeting every Thursday evening, 6:30–9:30 (or whenever we finish), on the UC campus. BMUG West and BMUG South are monthly meetings held in San Francisco and San Jose. Check the Announcement Line at (510)549-2684, ext. 8.

The BMUG Office, 2055 Center St. (a half block from the BART station), is open to the public 8:30 am–4:30 pm. Please come by, say hello, and meet other members.

The BMUG Helpline provides volunteer technical assistance and telephonic hand-holding for our members. If your question can't be answered on the spot, we try to get you in touch with someone who can help. Improve your Macintosh education and help others by becoming a Helpline volunteer!

BMUG has one of the most up-to-date, comprehensive software libraries around with hundreds of disks filled with the latest versions of public domain or shareware programs. BMUG also produces CD-ROM collections, including the digital video *TV-ROM ™Too*, and the *BMUG PD-ROM.*

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BMUG can be found on most online services. BMUG can also be reached through the Internet network at *UG0001@applelink.apple.com* .

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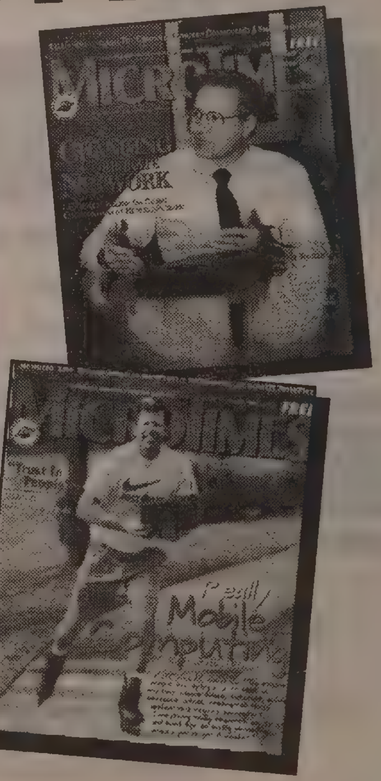

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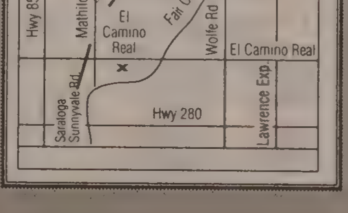

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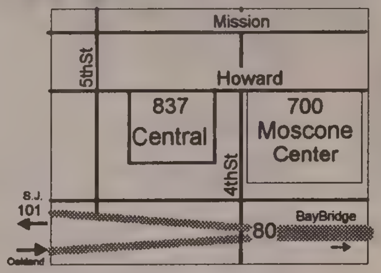

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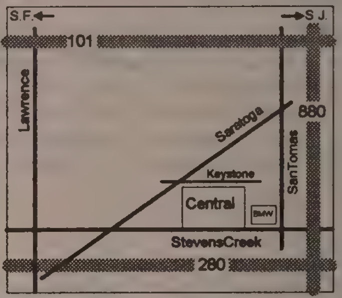

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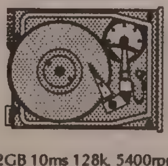

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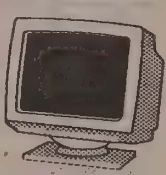
Non Parity : 8 x 32 - 60ns		249
Simm Verter 30-pin to 72-pin converter		21.95
OTHERS		
Memory for Computer, Laptop, Notebook, & Laser Printer upgrades		call

10. MODEM & FAX

APEX	
PCMCIA 14.4 Type II Mobile Direct	**(85)*
BOCA	
14.4 Fax Int / Ext	**(75/95)*
14.4 Online Express Int / Ext.	**(59/69)*
14.4 Voice Fax Modem Int / Ext	99/109
14.4 VSP Sound Express Fax Modem	**(99)*
14.4 Sound Expression Int	**(125)*
SE34SRS 28.8 Sound Expression Int (5-in-1)	**(199)*
28.8 Fax Modem v.34 Int / Ext	**(149/179)*
FUJITSU	
PCMCIA 28.8 v.34 Type II	279
PCMCIA ISDN	325
GVC (Maxtech)	
PCMCIA 9624 Fax	**(69)*
28.8 Fax Int	**(139)*
HAYES	
Accura 144 Fax Int / Ext	**(79/99)*
Accura 28.8/14.4 v.34 Fax Int / Ext	149/*(165)
ESP Communication : Single Port	85
Optima 288 v.34 Fax Int	359
Optima 288 v.34 Fax Voice Ext	**(245)*
Optima 288 v.34 PCMCIA w. EZ jack	**(225)*
MEGAHERTZ	
XJ4288 PCMCIA Fax, cellular capable	**(225)*
XJ4288M PCMCIA Fax, cellular w. Motorola cable	249
MICROCOM	
Deskporte 28.8S V.34 Fax Ext	**(165)*
Deskporte 28.8P V.34 Ext Parallel	229
MOTOROLA	
BitSerfer ISDN Modem Int	**(265)*
BitSerfer TA210 ISDN Ext	**(249)*
BitSerfer Pro ISA for ISDN Int	**(305)*
BitSerfer Pro ISDN Multilink PPP Ext	**(299)*
Modem Serfer 28.8 Fax Int / Ext	**(115/125)*
Montana PCMCIA 28.8	**(215)*
Online Serfer 28.8 Fax Int / Ext	**(119/155)*
Premier 33.6 Modem Int / Ext	**(215/229)*
PHOBE MICRO	
28.8 Fax Int	**(92)*
PRACTICAL PERIPHERALS	
PC288HC PC28.8 v.34 Fax, 230K DTE Int	245
PC288MT 28.8 v.34 Fax Ext	259
PC28.8 v.34 Ext LCD	295
PM144HC PM144FX144 Int	**(69)*
PM144MT Mini Tower 144 Ext	**(85)*
PM288HC PM28.8 v.34 Int	**(145)*
PM288MT Mini Tower Ext	**(165)*
PURE DATA	
Satisfaxion 400 144/144 Fax Int	255
Satisfaxion 400e 144/96 Fax Ext	335
Satisfaxion 428 28.8 v.34	325
SUPRA EXPRESS	
28.8 Fax Modem, plug & play Int / Ext	**(109/159)*
US ROBOTICS	
SALE	
Courier V. Everything Int / Ext	**229/255**
Sportster v.34 33.6 Fax Int / Ext	**135/152**
Courier ISDN v.34 Int / Ext	375/399
Courier ISDN v.34 with NT1 Int / Ext	415/485
Courier ISDN with Analog Int / Ext	445/525
Courier PCMCIA 28.8	279
Sportster 14.4 Fax Void Modem Int / Ext	99/109
Sportster ISDN 128k Int	**(325)*
Sportster 14.4 Win Modem Int	59
Sportster 28.8 Win Modem Int	109
Sportster v.34 28.8/14.4 Fax for MAC	215
Sportster v.34 33.6 Fax/ Voice / w. Speaker Phone Int / Ext	169/195
Sportster PCMCIA Fax v.34 28.8	**(199)*
Sportster Vi 288 Fax w. Voice Mail Int	165
Sportster Vi 28.8 v.34 w. DSVD Int	179
Total Control Modem Pool/8	2950
Total Control Modem Pool/16	5560
WISECOM	
WS-2814IS6/W 28.8 Data / Fax / Voice Int	**(139)*
XIRCOM	
CM-28 28.8 Fax PCMCIA	255
ZOOM	
28.8 V.34 14.4 Fax Int / Ext	*(99/125)
Comstar 28.8 Voice V.34 Tel Int	**(149)*
33.6 Fax Modem Int	**(115)*
OTHERS	
CommShare 550 Phone & Fax Auto-switch	**(69)*
CommShare 750 4 Port Switching	**(89)*

11. MONITOR

For your comparision,
we display same pictures
on 20 big monitors
using VGA splitters.



ACCESSORIES :

3M Monitor Lens: 15" / 17" / 21"	39.95/49.95/99.95
VGA Monitor Splitter : 4 Port / 8 Port	155/195
VGA, Keyboard Switch : 4 Way	19.95
VGA, Keyboard & Mouse Switch : 2 Way	24.95
VGA, Keyboard & Mouse Switch : 4 Way	34.95
VGA Switch 1 to 4 Way	13.95

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SM1411 14" Flat Mono Amber	85
SM1418 14" SVGA Mono	99
DIGIVIEW	
SALE	
MVD-1709D 17" 1600 x 1200 .25	**675**
MVD-1508 15" 1280 x 1024 .28	325
MVD-1708 17" 1280 x 1024 .28	545
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CM500 15" Flat 1280 x 1024 .28 NI	379
CM1711 17" 1280 x 1024 .28 NI	799
CM2011M 20" 1600 x 1200 .28 NI	1210
CM800 21" 1600 x 1200 .22	1535
CM802 21" 1600 x 1200 .22	1785
IIYAMA	
SALE	
MT-9017E 17" 1600 x 1200, 72Hz, .25 NI	**729**
MF-8221E 21" 1600 x 1280, 76Hz, .28 NI	**1435**
MF-8617E 17" 1600 x 1200, 69Hz, .26 NI	669
MT-9021E 21" 1600 x 1280, 76Hz, .30 NI	**(1525)*
JFTON (NEC oem)	
TE-760 17" 1280 x 1024 .28 NI	525
KFC	
CA1515DS 15" Flat 1280 x 1024 .28	**(319)*
CA1716DL 17" 1280 x 1024 .28	539
MAG	
DX15T 15" 1280 x 1024 .26 NI	**(369)*
DX17T 17" 1280 x 1024 .26 NI	699
DX1795 17" 1280 x 1024 .28	**(615)*
MXP17F 17" Flat 1600 x 1280 .26 NI	**(739)*
MITEC	
L1564+ 15" 1280 x 1024 .28	289
NANAO	
F2.17 17" 1280 x 1024 .28 NI	825
F2.17EX 17" 1600 x 1200 .26 NI	925
T2.17 17" 1280 x 1024 .25 NI, Trinitron	**(965)*
T2.17TS 17" 1280 x 1024 .25, Diamondtron	899
TX-C7S 17" 1600 x 1200 .25, Trinitron	999
T2.20 20" 1600 x 1280 .30 NI, Trinitron	1779
FX2.21 21" 1600 x 1280 .28	2895
NEC	
C500 15" 1280 x 1024 .28, plug & play	389
M500 15" 1280 x 1024 .25 NI	**(429)*
XV15 Plus 15" 1024 x 768 .28	455
M700 1280 x 1024 .25 NI	**(779)*
XP17 17" 1280 x 1024 .28 NI	965
XV17 Plus 17" 1600 x 1200 .28 NI	**(769)*
P750 17" 1600 x 1200 .25	999
P1150 21" 1600 x 1200 .25, 75Hz	1969
XE21 21" 1280 x 1024 .28 NI	**(1675)*
XP21 21" 1600 x 1200 .28 NI	**(1899)*
- Monitor Lens for 15XV	75
- Monitors Lens for 17XV / 17XE / 17XP	79/99/99
NOKIA	
447L 17" 1024 x 768 .28 NI	689
447X 17" 1600 x 1280 .25 NI	879
450Xi 21" 1600 x 1200 .22	1699
OPTIQUEST	
1000S 14" 1024 x 768 .28 NI	255
V665 15" 1280 x 1024 .28 NI, Digital	345
V775 17" 1600 x 1200 .26 NI	585
2082DC 20" 1600 x 1200 .28	1199
PANASONIC	
C1791E 17" 1280 x 1024 .28 NI (demo unit)	**(545)*
PRINCETON	
Ultra 17 Plus 17" 1600 x 1280 .28 NI	**(615)*
Ultra 70F 17" 1280 x 1024 .28 NI	535
PROTON	
GM1449A 14" 1280 x 1024 .28 NI, built-in speakers & earphone	265
GM1560 15" Flat 1280 x 1024 .28 NI	325
GM1764 17" Flat 1280 x 1024 .28 NI	535
SAMSUNG	
15GLi 15" 1280 x 1024 .28 NI, at 60Hz	399
17GLi 17" 1280 x 1024 .28 NI, at 60Hz	685
17GLSi 17" 1600 x 1200 .26 NI, at 68Hz	825
20GLSi 20" 1600 x 1200 .28 NI, at 66Hz	1175
SHAMROCK	
SRC-1407 14" 1024 x 768 .28 NI, Digital	219
SRC-1502L 15" 1280 x 1024 .28 NI, Digital	309
SRC-1703L 17" 1280 x 1024 .28 NI, Digital	545
SRC-1702L 17" 1600 x 1280 .26 NI, BNC	689
SRC-2002L 1600 x 1280 NI	**(1025)*
SRC-2102L 1600 x 1280 NI	**(1125)*
SONY	
15SFII 15" 1280 x 1024 .25 NI plug & play	445
15SX 15" 1280 x 1024 .25 NI, plug & play	379
17SEII 17" 1600 x 12000 .25 NI, plug & play	**(949)*
17SFII 17" 1280 x 1024 .25 NI plug & play	749
20SEII 20" 1600 x 1200 .25 NI	1799
20SFII 20" 1600 x 1200 .30 NI, plug & play	1599
TVS	
9" 1024 x 768 VGA Mono	119
VIEWSONIC	
14ES 14" 1024 x 768 .28 NI	259
15ES 15" 1024 x 768 .28 NI, MacII	329
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15GA 15" 1280 x 1024 .28 NI, built-in speakers	**(439)*
15GS 15" 1024 x 768 .28 NI	379
17EA 17" 1280 x 1024 .28 NI, plug & play	599
17GA 17" 1280 x 1024 .27 NI, plug & play	**(689)*
17GS 17" 1280 x 1024 .27 NI	599
17PS 17" 1600 x 1280 .25 NI, plug & play, TCO	**(675)*
GT770 17" 1280 x 1024 .25	669
PT770 17" 1600 x 1280 .25	769
20C 20" 1600 x 1280 .28 NI, MacII, TCO	**(1089)*
GT800 21" 1600 x 1280 .30	1349
P810 21" 1600 x 1280 .25	1439
PT810 21" 1600 x 1280 .30	**(1609)*
29GA 29" 1280 x 1024 .75 stripe pitch	**(2395)*
WYSE	
WY-15E 15" 1280 x 1024 .28 NI	399
WY-55 Terminal 14" : Amber/ Green/ White	275 each
WY-60 Terminal 14" : Amber/ Green/ White	359 each
WY-65 Terminal 14" : Amber/ Green/ White	345 each
WY-150 Terminal 14" : Amber/ Green/ White	325 each
WYSE Enhanced PC Keyboard	98

12. MOTHERBOARD

ASUS (w/o cpu)	
586-90 / 133, 256k PCI EISA, dual processor	445
P55T2P4 586-166, PCI, 256k, Burst SRAM	175
P55TVP4 586-200Mhz, PCI, , T3, 256k Burst SRAM	169
P6NP5 Pro 200Mhz, w. IDE I/O & 440FX chipset	315
P65UP5 Dual Pentium Pro 200Mhz	625
XP55T2P4 586-200, PCI, ATX, 256k Burst SRAM	175
INTEL (w/o cpu)	
Atlantis 586-166Mhz PCI, Triton, built-in IDE I/O, ATI Mach 64 1MB SVGA & Vibra Sound	
w. 256k Burst SRAM	259
w. 512k Burst SRAM	289
Marl 586-166Mhz, 256k, ATX	165
Tucson TC430HX 586-200, ATX, 256k Burst SRAM	209
Venus Pentium Pro 200Mhz, IDE I/O, w. 440FX	315
M-TECH (w/o cpu)	
486-DX2-66 256k VESA, 30-pin & 72-pin	99
486-DX4-133 256k PCI, 30-pin & 72-pin	115
586-166Mhz 256k PCI, 30-pin & 72-pin, w. Burst SRAM 256k	139
T2 586-166Mhz 256k w. Burst SRAM	159
MICRONICS (w/o cpu)	
M54PI 586-133Mhz w. IDE I/O (Neptune)	199
M54Hi 586-166 256k, Triton, w. Burst SRAM	285
M54HiS 586-166 256k, Triton, w. Burst SRAM & Sound Card	315
SHUTTLE (w/o cpu)	
HOT-433 486-DX4-133Mhz 256k, PCI, IDE I/O	119
HOT 541 586-166, PCI, Triton, IDE I/O 256k SRAM	139
SUPER (w/o cpu)	
P55CMS 586-90 / 180 256k, PCI, built-in IDE I/O	
- w. Burst SRAM 256k, w/o cpu	185
- w. Burst SRAM 512k, w/o cpu	209
P5STE 586-166 256k, PCI, built-in EIDE I/O, T2	
- w. Burst SRAM 256k, w/o cpu	199
- w. Burst SRAM 512k, w/o cpu	225
P6DNF Dual Pentium Pro 200Mhz, w. IDE I/O & 440FX chipset	**(549)*
P6DOF Dual Pentium Pro 200Mhz, w. IDE I/O & Orion chipset	**(569)*
P6DNE Dual Pentium Pro 200Mhz	439
SNEPRO6 Single Pentium Pro 200Mhz, w. IDE I/O & 440FX chipset	319

13. MOUSE & JOYSTICK

KENSINGTON	
Expert Bus 5.0	115
Expert Serial & Trackball 5.0	95
Thinking Mouse (serial & PS/2)	79
LOGITECH	
Cordless II	72
Mouseman 96	52
Mouseman Bus	64
Serial Combo PC & PS/2 oem / reg	32/45
Trackman Live Cordless	125
Trackman Marble (for Win'95)	85
MICROSOFT	
Bus 2.0 400dpi w. Bus Card oem / 5-Pack	65/325
Home Mouse Serial	29
PS/2 2.0 (round connector) oem / reg	35/59
Serial 2.0 400dpi oem / reg	29/55
MOUSE SYSTEMS	
Mouse! Serial w. Pad	19
Omni Mouse (new version)	26
PC Mouse III (3-button optical)	49.50
PC Trackball II	39.95
ProAgio (5-button serial)	39
Serial Bus Card (9IRQs) - 5 com	29
OTHERS	
AGILER ATB-610 Serial Trackball	19.95
ANCER 3-button Black	19
ANTEC Serial Mouse	**(6.95)*
Flintstone Mouse w. mouse pad	**(9.95)*

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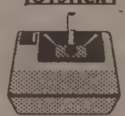

LOGITECH	
Wingman Extreme oem / reg	39/47
Wingman Standard w. free CD	29
MICROSOFT	
Side Winder 1.0	29
Side Winder 3D Pro	**(55)*
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Cobra (joystick)	9.95

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UPROM	29.95
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XL Action	28
- w. EF2000 game	33.95

OTHERS

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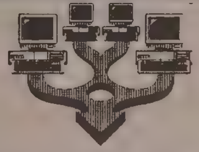
14. NETWORK



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3C509B Etherlink III Combo oem	**(89)*
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3C562 PCMCIA Lan + Modem Combo	469
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3C590 PCI Combo oen / reg	**(125/155)*
3C592 Etherlink III EISA TPO / Combo	199/219
3C597-TX EISA 10/100 TP	239
3C861 Impact ISDN S/T Interface Int	349
3C862 Impact ISDN U-Interface, built-in NT1, Int	425
3C871 Impact ISDN Digital Modem Ext	349
3C882 Impact ISDN with V.32bis IQ Ext	365
3C900 PCI TPO oem / reg	95/115
3C900 PCI Combo oem / reg	*(119)/135
3C905-TX PCI 10/100 TP oem	**(129)*
- single reg / 5-Pack	159/645
3C16170 Link Builder (12TP)	325
3C16670A Superstack II 12 Port Hub	495
3C16671 Link Builder FMSII 24 Port	**(849)*
3C16700 TPO Office Connect HUB (8TP)	149
3C16701 TPC Office Connect HUB (8TP + BNC)	189
3C16710 TPM Office Connect HUB: (8TP + BNC + Management)	459
3C30500 Linkswitch 500 Stackable 10 Port	2595
3C16901 Linkswitch 1000 12 Port 1 Fast	2495
3C16900 Linkswitch 1000 24 Port 1 Fast	3195
3C16640 Linkswitch 1200 6 Port, FDDI Link	4595
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ATM 25.6Mb/s 128k PCI	299
ATM 25.6Mb/s 512k PCI	389
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ALLIED TELESYN

MR820TR MicroHub 8 Port (8TP + AUI + BNC)	139
Rack Mount Ears for HUB	19.95
Transceivers: MX10 (AUI - BNC) / 210T (AUI - TP)	29/29
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Workgroup Hub 3012TR 12 Port (12TP+AUI+BNC)	239
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- upgrade to dedicated server	59
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- upgrade for single - CD / FD	55/65
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- upgrade for 10-user - CD / FD	245/255
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Lantastic 7.0 Starter Kit 2-user - CD+FD	249
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- conversion for 1 / 5 / 10-user	89/345/595
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NR-SI 2000A Combo	**(89)*

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P130-UBRI-FT1 ISDN	1250

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Lattishub 2803: 16TP + 1AUI Stackable	599
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BEN1VL VLB TP / BENPI PCI 32 bit Combo	69/*(79)

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- Ethernet BNC & 10BaseT (2S 2P)	435

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- upgrade	239
Arc Serve 6.0 for Win - 50 to 1000-user	1095
- upgrade	415
Arc Serve for Win NT Single Server	**(415)*
Arc Serve for Win NT Enterprise	**(725)*
Arc Serve for Mac - 5 / 20-user	159/309
Arc Solo Backup s/w for Dos / for Win	119/118
Fax Server NLM 3.01 - 5 / 10 / 25-user	355/639/999
Inoculan for Netware Server 4.0 Unlimited	585
Inoculan for Win'95 (Anti-Virus)	45
Inoculan for Win NT Workstation Client	46
Inoculan for Win NT Single Workstation	59

CISCO

CPA-2514A Router	2250
CPA-202 Personal Office ISDN - BRI w. NT1	425
CPA-751 ISDN BRI	625
CPA-751RO ISDN BRI Remote Office	995

CNet (Advanced Network)

930 PCI PNP Full Duplex	39
2000E+ PNP Combo ISA	28
3270 Emulation for PC / for PS/2	175/195
4020ERP 2 Port Coax Repeater	165
5250 Emulation for PC / for PS/2	199/235
8800TPC HUB: (8TP + BNC)	**(89)*
8816TPC HUB: (16TP + BNC)	**(179)*
8900TPC 12 Port SMNP Slave HUB	299
8910TPC 12 Port SMNP Master HUB	485

COGENT

EM100 PCI Fast-TX, 32 bit bus mastering	219
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EM595TP Ethernet PCMCIA UTP	189
EM932 EISA 32 bit Coax / TP	224/225
EM960 32 PCI Full Duplex TP / Combo	**(119/129)*
EM964TP 32 PCI 4-Port Full Duplex TP	469

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EN-1600 16 Port HUB R.M.	**(195)*
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ER-400 4-port Repeater Coax	299
ET-510 Translator (UTP to AUI)	107
ET-509 Translator (UTP to BNC)	109
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DEC

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Data Fire : Client ISDN (2B, 1D, 128Kb/s)	395
IMAC Bridge 1 ISDN / Dual IMAC	1165/1595
PC IMAC-ISA : Server, 1ISDN	525
PC IMAC/4-1 : Multi ISDN Expension	665
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FUJITSU

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HP

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- with SMNP	1295
J2382B Jet DirectEX (for HP 5P & others)	**(165)*
J2547B Flash Simm for J2382B	89
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J2552A Jet Direct Combo (for HP 4 series)	345
J2573A 10/100 VG Selectable ISA	169
J2585B 10/100 VG Selectable PCI	135
J2591A Jet DirectEX Plus Combo	295
J2593A Jet DirectEX Plus 3 Combo	439
J2980A Advance Stack 10/100 Lan Switch-16	5295

IBM

ISDN Wave Runner ISA	495
Token Ring 16/4 Auto ISA 16	245

INTEL

EILA 8225 EtherExpress 32 Flash EISA Combo	219
EILA 8265 PRO/100 for EISA	**(199)*
MCLA 8120 MCA TP	175
PILA 8520-TPO PRO/10 PCI oem	**(85)*
PILA 8465B PRO/100 PCI TP oem / 5-Pack.	**(125/495)*
EtherExpress Pro 10 bit cards :	
- PCLA 8200 BNC +AUI +TP oem / reg.	89/115
- PCLA 8200 5 Pack	**(499)*
- PCLA 8210 BNC + TP oem / reg	**(79/104)*
- PCLA 8210 5 Pack	**(449)*
- PCLA 8220 TP oem / reg	**(69/99)*
- PCLA 8220 5 Pack	**(395)*
- PCLA 8205 Flash BNC+AUI+TP	135
- PCLA 8215 Flash BNC + TP	125
- PCLA 8225 Flash TP	115
EC100TX Stackable 12 Port 100 TX Hub	1595
- bundled with 10-pack PILA 8465B	**(2395)*
ES100-TX Switching Hub	3395
LANdesk Server Manager Pro (LDSMV251)	1185
LANdesk Virus Protect 3.0 (SLAN1218V30)	665
LANdesk Workgroup Manager 25 Node (LEWMV10)	559
Netport Express Pro / 3-pack	399/1050
Netport Express XL / 3-pack	435/1295

LANPRO

2000JT 16 bit TP	**(28)*
EN2000PXA PNP Full Duplex Combo	**(35)*
EN5100 PCI Combo	79
EN5200PX PCI Combo	**(44)*
EP3020A Pocket Combo	99
HUB : 5 Port (5TP)	**(69)*
HUB : 8 Port (8TP + BNC)	**(85)*
HUB : 16 Port (16TP + BNC) Desktop	**(159)*
HUB : 16 Port (17TP + 1AUI + 1BNC)	**(189)*

MEGAHERTZ

XJ10BT PCMCIA Ethernet TP	**(125)*
XJ10BC PCMCIA Ethernet Combo	**(165)*
XJEM 3288T: Modem 28.8 + Ethernet TP	**(299)*
XJEM 3288C: Modem 28.8 + Ethernet Combo	**(375)*

MICROCOM

Lan Express 2000 4 Port	2550
Lan Express 2000 8 Port	3550

MICRODYNE (Eagle)

EH800E 8 Port HUB	**(139)*
EH1200E 12 Port HUB	199
NE 10/100 : ISA / PCI	139/135
NE2000+ TP / 5 pack	**(75/329)*
NE2000+ Combo / 5 pack	**(85/399)*
NE2500 Combo, plug & play oem	**(55)*
NE3200 EISA Coax / TP	445/445
NE3210 EISA 32 bit Combo	185
NE5500 32 bit PCI	**(109)*
Synchronous .35 WAN Adapter / .35+	450/869

MICROTEST

CD-Now (w/o Netware)	415
CD-Now for Netware : 25-user / 50-user	489/695
Disc View Pro	265
Disc Serv (includes Disc View)	529

NATIONAL SEMICONDUCTOR

InfoMover NE2000+ Combo	69

NETWORTH

100 Base TX 8 Port HUB	1375

NOVELL

Lan Workplace 5.0 single / 10-user	195/1295
Netware 3.12 (3.5" FD or CD) *- 5 / 10 / 25-user*	**(675/1395/1695)*
- 50 / 100-user	**(1950/2995)*
Netware 4.1 (CD only)	Call
Netware Connect 2 Ports / 8 Ports	355/1375
Netware Connect 32 Ports	3895
Netware Management Agents	335
Netware NFS v1.2C	2850
Netware NFS Service 2.1	2195
NFS Client for Lan Workplace	205
Personal Netware oem / reg	39/75
Unixware Personal Edition v2.01 - CD version	**(245)*
Unixware SDK v2.1 - CD version	**(75)*

PALINDROME

Network Archivist NLM 3.1A Backup	**(395)*

SHIVA

LanRover/2E Plus 3.5 Async TP v.34	1695
NetModem/E 28.8 Ether BNC + TP	1295

SMC

Ether EZ Combo oem / reg	*(79)/115
Elite Ultra 16 Coax (8216B) oem	**(69)*
Elite Ultra 16 Combo oem	89
Elite Ultra 32 EISA Combo	215
Etherpower PCI TP (8432T) oem / reg	*99/*(125)*
Etherpower PCI Combo oem / reg	**(119/155)*
Etherpower PCI 10/100 (9332DST) oem / reg	**(125/145)*
Netware Boot ROM for Ethernet v1.3	29.50
Tiger HUB:100TX 8 Port / 16 Port	1195/2395
Tiger HUB:3212TC (12TP + BNC + AUI)	369
Tiger Switch XE 24 Port	6895

INTERNET SOLUTIONS

- We build custom configured networks & systems for local and wide area networks
- Cable installation and repair services
- Email server / Proxy server / Internet service provider

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"NETSERVE" Specialist
A division of Central Computer Systems

**(price) .... SPECIALS , while supplies last*

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THOMAS CONRAD

TC5143T ISA TP / 6-Pack	79/395
TC5048T PCI TP / 6-Pack	145/635
TC5048T2 PCI Combo / 6-pack	175/785

WISECOM (5 yr warranty)

E300CT PCI 32 bit Combo	65
H008CAT 8 Port HUB (8TP + AUI + BNC)	*(89)
P200CT 16 bit ISA Combo, plug & play	39
R200CT 16 bit ISA Combo	35

XIRCOM

PCMCIA CE3-10BT TP	*(139)
PCMCIA CE3-10BC Combo	*(175)
PE3-10BT Pocket Adapter TP	*(259)
PE3-10BC Pocket Adapter Combo	*(279)
PS-CEM28-BT 28.8 Modem + Ethernet TP	*(325)
PS-CEM28-BC 28.8 Modem + Ethernet Combo	*(395)

CABLES & ACCESSORIES :

Custom-made Cables, Cross-Overs available	**call**

15. NOTEBOOK

ACER / AST / NEC

Notebooks	call

CHEM USA

ChemBook 5400: 8MB, 800MB, 6X CD, Dual Scan 11.3" w. Win'95 : - P100Mhz	2085
- P133Mhz / P166Mhz	2195/2395
ChemBook 5580: 8MB, 800MB, 6X CD Removable, Dual Scan 11.3", Soft MPEG built-in - P100Mhz / P133Mhz	2199/2299
- P150Mhz / P166Mhz	2399/2499
All systems w. 16MB	add 85
All systems w. 32MB	add 250
Internal Battery / External Battery	85/175
Upgrades: - TFT 10.4" Active	225
- TFT 12.1" Active	595
- 1.08GB / 1.3GB HDD	add 50 /150
- 2GB HDD	add 450
With Win'95 loaded	add 90

DFI

(All 7200 includes 256KB cache, MPEG s/w, 1.44 FD, built-in sound, carrying case, AC/DC Adapter)

D7200: 10.4" Dual Scan, 8MB, 810MB HDD, - P75Mhz / P100Mhz	2095/2145
- P120Mhz / P133Mhz	2245/2365
T7200: 10.4" Active, 8MB, 810MB HDD, - P75Mhz / P100Mhz	2345/2395
- P120Mhz / P133Mhz	2485/2595
T7210: 11.3" Active, 8MB, 810MB, - P120Mhz / P133Mhz	2685/2795
All Systems with 16MB RAM built-in	Add 85
All Systems with 24MB RAM built-in	Add 195
All Systems w. 32MB built-in	Add 325
Upgrades: - fr 810MB to 1.3GB HDD	165
- 4X CD Rom	225

Panasonic / Samsung / Toshiba

Notebooks	call

OTHERS

US ROBOTICS: Pilot 1000 Pocket Organizer	279
US ROBOTICS: Pilot 5000 Pocket Organizer	355
- 1MB upgrade	159
- Cable for Mac	25
- Pen 3-pack	7.95

16. POWER SUPPLY

AMERICAN POWER CONVERSION

BK-280 Back-UPS (200W)	105
BK-400 Back-UPS (300W)	154
BK-450 Back-UPS (325W)	179
BK-600 Back-UPS (425W)	239
BK-900 Back-UPS (650W)	345
BP-280 Back-UPS Pro PNP	159
BP-420 Back-UPS Pro PNP	235
BP-650 Back-UPS Pro PNP	289
SU-450 Smart-UPS (486, 586 WS)	285
SU-700 Smart-UPS (486, 586 FS)	345
SU-700 Net (w. Power Chute Plus)	399
SU-1000 Smart-UPS (486, 586, FS & WS)	485
SU-1000 Net (w. Power Chute Plus)	535
SU-1400 Smart-UPS (950W)	625
SU-1400 Net (w. Power Chute Plus)	665
SU-2200 Smart-UPS	1065
SUVS-420 Smart Value Server	239
SUVS-650 Smart Value Server	295
SUVS-1000 Smart Value Server	415
PowerChute Plus :	
- for Novell	65
- for OS/2, Lan Server, 3 Com	75
- for Unix / Xenix	99
- for Win'95 / for Win NT	55/69
Surge Arrest (PER 7)	17.99
Surge Arrest w. TEL (PER 7T)	24.99
Surge Protector (P7)	9.99

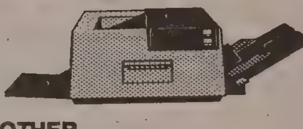
PC POWER COOLING

CPUcool for 486 or 586-75 / 133	19.95
CPUcool for 586-150 / 166	21.95
Silencer Slim 230 for Baby or Mid Tower	*(75)
Silencer 230 Full Tower	95
Silencer 270 :	
- Slim for Baby or Mid Tower	125
- for Full Tower	149
Standard 230 for Full Tower	85
Turbo Cool 300 :	
- for Slim (baby or mid tower)	*(115)
- for Full Tower	148
Turbo Cool 400 :	
- for Full Tower / for Slim	*(185/185)
Turbo Cool 450 for Full Tower	285
Turbo Cool 550 for Full Tower	375
Twinpower 900 (redundant)	895

OTHERS

250W for Babt AT	45
250W for Baby or Mid Tower	45
250W for AT / for Full Tower	47/49
300W for Full Tower	69
400W for Full Tower	115
500W for Full Tower	235
550W for UPS	279
1200W for UPS	659
RPT-600 300W Redundant for Tower	179

17. PRINTER / PLOTTER



BROTHER

HL-720 True 600dpi, 6ppm, Laser	365
HL-730-DX True 600dpi, 6ppm, Laser	445
HL-960 True 600dpi, 12ppm, Laser	995
HL-1260 True 1200dpi, 12ppm, Laser	1225
MFC-690 5-in-1, fax/ copy/ scan/ PC fax/ print	269
MFC-890 6-in-1, fax/ copy/ message center / scan/ PC fax/ print	299
MFC-4550 5-in-1, 600dpi, Laser, Fax	799

CANON

BJ-10SX w. Sheet Feeder (ASF-6420)	*(145)
BJC-70 Colot, 720x360dpi, 346cps	*(299)
BJ-210 Color, 360x360dpi, 25ppm	175
BJC-610 Ink Jet, Color, Par, 720dpi	*(425)
BJC-4100 Ink Jet, Color, 360x720dpi	*(265)

EPSON

FX-870 9-pin	299
FX-2170 9-pin, Wide (max. 6 copies)	*(399)
LQ-570 Plus 24-pin	259
LQ-870 24-pin, Par	455
LQ-2170 24-pin, Wide	549
Stylus 500 Color Inkjet 720x720dpi	*(279)
Stylus IIS Color 720dpi PC	*(199)
Stylus Pro Color, laser quality	*(385)
- Adobe Postscript add-on	199
Stylus Pro XL	1695
Stylus 1500 720dpi, fit A - C size paper	925
Accessories :	
Black Ink for II & IIS	19.95
Color Ink for II & IIS	29.95

HP

Color Laser Jet C3961A	5699
Desk Jet 680C	299
Desk Jet 820CXi / 870CXi	389/495
Desk Jet 1600C PC, Mac	1299
Desk Jet 1600CM Postscript PC, Mac	1919
Laser Jet 4V / 4MV (B size)	1895/2695
Laser Jet 5 / 5Lfs	1235/409
Laser Jet 5N / 5M	1475/1689
Laser Jet 5P / 5MP	849/945
Laser Jet 5Si / 5SiMX	2699/3750
Office Jet 330 4-in-1, print/ fax/ scan/ copy	585
Portable 340	299

PLOTTERS

Design Jet 350C: D Size / E Size	2195/2850
Design Jet 750C: D Size / E Size	5095/6095
Design Jet 755CM: E Size	9795

Accessories :

Color Kit C3067A for 540 / C4533A for 600	*(37/39)
Duplex C3762A for 5Si / 5SiMX	479
Duplex C3920A for 5 / 5N / 5M	475
Envelope Power Feeder 75 Sheet (HP4+)	279
Legal, Letter or A4 250 Sheet Tray (HP4+)	99
Legal, Letter or A4 500 Sheet Tray (HP4+)	109
Lower Cassette C3760A (4V,4MV)	325
Optional 500 Sheet legal Letter A4 (HP4+)	279
Postscript (C2013A) for 4Si	575
Printer Pals for 850C / for 4, 4L, 5L	169 ea.

Ink Cartridges :

Black (HP51626A) for 500, 540, 560	24.45
Color (HP51625A) for 500C, 550C, 560C	26.95
Black (HP51629A) for 600, 660	24.95
Color (HP51649A) for 660C	29.25
Black (HP51645A) for 850C, 855C, 1600C	24.95
Color (HP51641A) for 850C, 855C, 1600C	*(19.95)
Black (HP51640A) for 1200C	23.95
Cyan (HP51640C) for 1200C	27.95
Magenta (HP51460M) for 1200C	27.95
Yellow (HP51640Y) for 1200C	27.95
Black (HPC3105A) for Color Laser Jet	7.95
Cyan (HPC3102A) for Color Laser Jet	32.95
Magenta (HPC3104A) for Color Laser Jet	32.95
Yellow (HPC3103A) for Color Laser Jet	32.95

Toner Cartridges :

Toner (HP92295A) for II, IID, III, IIID	75
Toner (HP92275A) for IIP, IIP+, IIIP	74
Toner (HP92291A) for IIISi, 4Si, 4SiMX	129
Toner (HP92298A) for 4, 4M, 4+, 4M+	109
Toner (HP92274A) for 4L, 4ML, 4P	65
Toner (HPC3900A) for 4V, 4MV	139
Toner (HPC3906A) for 5L, 5ML	59
Toner (HPC3903A) for 5P, 5MP	75

LEXMARK (IBM printers)

Optra E 600dpi, 6ppm, 1MB	545
Optra C 600dpi, 3ppm color, Postscript, 8MB	5795
Optra LX+ 1200dpi, 16ppm, Par, Postscript, 4MB	1895
Optra LXi+ 1200dpi, 16ppm, 8MB, Postscript, w. Ethernet Combo	2595
Optra R+ 1200dpi/8ppm, Ser & Par, 2MB, Postscript, 600dpi/16ppm	1295

MICROTEK

TrueLaser MTP-306 35 fonts, 6ppm, 2MB	*(599)

OKIDATA

ML184T 9 pin, Par (max. 5 copies)	239
ML320 9 pin (max. 5 copies)	335
ML590 24-wire (max. 5 copies)	449
ML591 24-pin, Wide (max. 5 copies)	625
OKIJET 2010 Color, 600dpi	*(265)
OKIPAGE 4W Laser 4ppm	*(299)
OL600E Laser	389
OL610E Laser	495
OL610e/PS Laser Postscript	*(725)

PACIFIC DATA

ProTracer II Ink Jet (CAD Plotter)	695
Accessories:	
HP-GAL Emulation Card	375
Ink Cartridges	19.50
Postscript Emulation Card	375
Sheet Feeder I / Sheet Feeder II	99/95

PANASONIC

1150 9-pin, 55dBA	139
2130 Quiet Dot Matrix	199
2135 Quiet Dot Matrix, Color	255
3123 24 pin, Quiet, Scalable Fonts	259
3124 24 pin, Scalable Fonts, LCD	329
3626 24 pin, Quiet Wide-carriage	399
J250 Ink Jet, 300dpi, 128 nozzle printhead	*(259)
4440 Laser 10ppm	*(855)
4455 Postscript 11ppm	1695
5400 Led Postscript 4ppm	345
KXP-6100 600dpi 6ppm	399

SEIKO

Smart Label Printer EZ30	145
Smart Label Printer Pro	225
Standard Label (2 rolls)	7.95

SUMMAJET (Plotter)

1324M Mono A - D Size	1990
1324C Color A - D Size	2250
1336M Mono A - F Size	2465
1336C Color A - F Size	2695
D Size Stand / E Size Stand	325/365

18. PROJECTOR

3M, NEC

projection products	Call

PROXIMA

Desktop DP2810 LCD 8.4" 33mm 640 x 480	3850
Desktop DP5100	5850
Ovation 810 LCD 8.4" 2M Color, 640 x 480	2065
Ovation 920 10.4" LCD 16.7M 1280 x 1024	8150
Ovation+ 840 8.4" LCD 16.7M 800 x 600	2995
Ovation+ 846 10.4" LCD 16.7M 800 x 600	3895
Portable Overhead A653 3000 Lumens	475
Portable Overhead A655 4000 Lumens	799

19. SCANNER

AVISION

AV100 Color Scanner	299

DELRINA

WinFax Pro Scanner	*(299)

FUJITSU

Scanning products	Call

HP (flatbed)

ScanJet 4C Color & Gray Scale w. Kit	859
- Auto Document Feeder	475
- Transparency	635
Scanjet 4P Color/ Grayscale	495

LOGITECH (hand)

Page Scan Color	*(295)
Scanman Color + PhotoShop L.E.	189

MICROTEK (flatbed color)

Scan Maker III w. TMA & Photoshop OCR	*(1999)
Scan Maker E3 600dpi, Color, PhotoImpact OCR	*(315)
Scan Maker E6 1200dpi, w. Imagester OCR	565
Scan Maker E6 Pro 1200dpi w. Photoshop OCR	750
Slide 35T 1800dpi, 16.8M Color, w. Photostar	725

VISIONEER

PaperPort VX for Win (HP4S design)	*(269)

20. TAPE BACKUP

ARCADA (software)

Back Up for Windows '95	65
Back Up Exec for Netware WS - Dos / Win	89
Back Up Exec for Netware 7.1 Enterprise	845
Back Up Exec for Netware Single Server	435
Back Up Exec for Netware 1 Server 25-user	285
Back Up Exec for Windows NT Enterprise	745
Back Up Exec for Win NT Server 6.1	425
Back Up Exec for Win NT Workstation	189

COLORADO

DJ-35D (Jumbo 350) 340MB Int	79
DJ-50C (Jumbo 1400) 1.3GB Int w. Controller	175
PT-25 PowerTape 2GB 300Kb/s Int	965
PTE-25 PowerTape 2GB Ext SCSI	1095

EXABYTE

EXB-2501 1 - 2GB SCSI-2 Int / Ext	475/629
Eagle 96 3.2GB Int (Floppy I/F)	*(175)
Eagle TR3 (603003-000) 3.2GB w. accel card Int	245
Eagle TR3 (603003-004) 3.2GB Int	159
EXB-8205XL 8mm Dat. 3.5 - 7GB Int / Ext	1275/1499
EXB-8505XL 8mm Dat. 7 - 14GB Int / Ext.	1899/2199
EXB-8700E 8mm 7 - 14GB Ext.	1465
EXB-8700LT 8mm 5 - 10GB Ext.	*(1045)

HP

C1534 4mm Dat. 2-4GB SCSI Int	*(559)
C1536 4mm Dat. 4-8GB SCSI Int	*(655)
C1533 4mm Dat. 8-16GB SCSI Int	845
Colorado T1000 850MB Travan w. cartridge Int.	*(139)
Colorado T1000 850MB, printer port Ext	175
Colorado T4000S 4GB Travan Int.	359
HP Mounting Frame to 5.25" for C1533	27
HP Mounting Frame to 5.25" for C1534	25
HP Mounting Frame to 5.25" for C1536	25

IOMEGA

Ditto 800MB Travan Int	125
Ditto 800MB Travan Parallel	145
Ditto 2GB Int / Ext	165/215
- 2GB Tape / 3-pack	19.95/57
Ditto 3200MB (QIC 3010/ 3020) Int.	235
Ditto 3200MB (QIC 3010/ 3020) Parallel	289

LEAKTEK

M-Mate Pro II (external video encoder)	99
Video Plus (color video grabber)	185
Winfast 280 VGA & MPEG-1 w. 1MB / 2MB	145/165
Winfast 430 VGA 2MB VRAM	135

MYTAPE

1.6GB Travan Int	159

NOVASTAR (software)

Backup / Restore for MAC	58
Novaback 4.58 for Dos	59.50
Novaback for Windows SCSI / QIC	56/59
Novaback for Win '95 SCSI / QIC	55/58
Novabakc for OS/2	58

SEAGATE (former Conner)

CNR-4320RT 2GB Int w. 5.25" rail	675
CNR-4326NP 4mm 8GB Dat. SCSI Int 3.5"	815
CNR-4326RP 8GB w. 5.25" rail	835
CNR-4350XT 2GB Ext	685
CNR-4324N 2 - 4GB SCSI Int	459
Tape Stor 350MB Int	*(69)
Tape Stor w. cartridge 420MB Int	139
Tape Stor w. cartridge 800MB Travan Int.	139

21. VGA CARD

ATI

Graphics Pro Turbo 2MB PCI	*(209)
Graphics Pro Turbo 4MB PCI 1600	*(315)
Video Expression 2MB PCI	*(159)

DIAMOND

Stealth 3D 2400XL 4MB PCI	185
Stealth 64 1MB DRAM PCI	79
Stealth 64 2MB DRAM PCI	99
Stealth Video 64 2MB VRAM PCI, upgradable	159
- 2MB upgrade	99
Stealth Video 64 4MB VRAM PCI	259

MATROX

IMP Plus 220 2MB PCI	*(165)
Millenium PCI w. 2MB / 4MB	189/259
- upgrade 2MB / 4MB / 6MB	99/179
- upgrade 6MB oem / reg	*(239)/249
Mystique 3D PCI w. 2MB	179
Mystique 3D PCI w. 4MB	239

NUMBER NINE

FX Motion 771 VRAM PCI 2MB oem	*(225)
FX Motion 771 VRAM PCI 4MB oem	*(329)
Imagine 128 Series II 4MB PCI	625

SPIDER

Lynx 64 64 bit Accelerator 1MB PCI	49
Tarantula 64 MK II 2MB VRAM VLB / PCI	129/129
Tarantula 64 MK II 4MB VRAM VLB / PCI	179/179
Tarantula Lite 64 DRAM w. 1MB / 2MB	49/69
Tarantula 3D DRAM Pn'P w. 2MB / 4MB	105/129

OTHERS

Boca Voyage Movie Player Accelerator VGA	285
Movie Plus 1100 MPEF Decoder	199
Televiewer / Televiewer Plus	139/189
Trident 8900 1MB ISA	49
Trident 9680 1MB PCI	49
Tvator Pro PC/MAC VGA to NTSC Scan Converter	159

**(price) .... SPECIALS , while supplies last*

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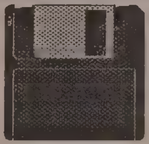
Tvator Remote Pro VGA to NTSC Scan Converter	289
V-Mate Pro (video encorder : PC to TV)	189

Conferencing & Video:

Epson Photo PC Color Digital Camera	475
Howard Video Camera	295
Intel Smart Video Recorder Pro	399
Intel ProShare Premier s/w	259
Intel ProShare Presenter	call
Intel ProShare Conferencing Video System	call
Quick Cam for Win	99
Quick Cam Color for Win	229
Snappy (video Snapshot)	198
Video Logic Captivator	135
Vision Time Conferencing s/w	44.95
Vision Time Gold: s/w + video capture	135
Vision Time Platinum: Gold + DSVD Modem	399
Vision Time Diamond: Platinum + Camera	645

SOFTWARE

1. PC SOFTWARE



ADOBE

FrameMaker 5.11 - CD+FD	559
- upgrade - FD / CD	195/199
Illustrator 4.1 for Win & Win'95	**(299)*
Pagemaker 6.0 for Win oem / reg	**(185/259)*
Photoshop 3.05 for Win 32 oem / reg	**(195/299)*
Premier 4.2 for Win - FD/CD	**(499)*

AUTODESK

Animator Studio 1.1	249
AutoCAD Lite 2.0	**(255)*
- for Win'95	409
Autosketch 2.0 for Win / for Win'95	135/89
Generic CADD 6.1	69

BORLAND

C++ 5.0 for Dos, Win, Win32 - CD	325
- upgrade	215
C++ 5.0 Developer Suite	425
- competitive upgrade	299
Delphi competitive upgrade	**(175)*
Delphi Desktop 2	325
- upgrade	179
Delphi Developer 2 Kit	535
- upgrade	269
Paradox 5.0 for Win oem / reg	39/275
- competitive upgrade for Win	**(109)*
Paradox 7.0 for Win'95 & NT	285
- upgrade	95
Power Pak for Dos	99
Sidekick 2 for Win	45
Turbo Assembly 5.5	115
Turbo C++ for Dos	92
Turbo C++ 4.5 fo Win - CD	79
Turbo C++ Visual Edt. for Win	79
Visual dBase 5.5 for Win	269
- upgrade	118

COREL

CD Creator 2 for Win 32 bit	**(159)*
Corel Draw 4.0 - CD oem	29
Corel Draw 5.0 - CD	**(395)*
- upgrade fr 3.0 - FD+CD / CD only	**(325/285)*
- upgrade fr 4.0 - FD+CD / CD only	**(189/165)*
Corel Draw 6.0 - CD for Win '95	**(299)*
- upgrade fr 3.0 / 5.0	**(299/199)*
Corel Flow	**(59)*
Corel Flow 3	129
Corel XARA	179
Ventura 5.0 - FD+CD / CD only	**(325/299)*
Word Office Professional - CD	435
- upgrade	235
WordPerfect Suite 3.1 - FD+CD / CD only	265/239
- upgrade FD+CD / CD only	135/95
WordPerfect Suite 7.0 for Win'95 - FD+CD	274
- CD only	235
- upgrade CD only / FD+CD	94/134

DELRINA

Comm Suite 7.0 for Win'95 - FD / CD	**(95/96)*
CyberJack 7.0 for Win'95	**(48)*
NetSatisfaxtion 3.0 for Novell 25-user	755
Win Comm Pro	79
WinFax Pro + Win Comm Pro	**(109)*
WinFax Pro 4.0 - FD / CD	79/89
WinFax Pro 4.1 for Network :	
- 10 / 25 / 50-user	599/1395/2650
WinFax Pro 7.0 for Win'95 - FD / CD	79/79
WinFax Pro Starter Kit (server + 2 notes)	265

IBM

Anti Virus Desktop Edition	**(45)*
OS/2 3.0 Warp - CD / FD	75/74
OS/2 Connet / w. Windows	135/175
OS/2 Warp + Dos & Win - CD / FD	119/118

INTUIT

Quicken Deluxe 5.0 - CD / FD	59/58
Quicken Family Lawyer - CD	**(39)*
Quicken Financial Planner '95	38
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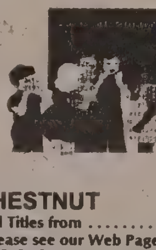

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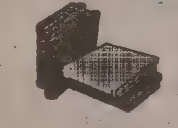

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Calendar Of Events

Conferences, Shows, Special Events

October

October 12–13 MarketPro Computer Shows & Sales. Vallejo. MarketPro. Contact: (415)456-6730, *mpro@marketpro.com* , or URL: *http://www.marketpro.com* .

October 14–15 ACI DEV CON '96. San Jose. DCI Contact: (508)470-3870.

October 15–19 WebNet '96 – First Annual World Conference Of The Web Society. San Francisco. Contact: (804)973-3987, *aace@virginia.edu* , or URL: *http://www.aace.org* .

October 16 Software Forum Dinner Meeting: "Intelligent Networks" With Marc E. Jones, COO Of Madge Networks, Inc. Palo Alto. Contact: (415)854-7219.

October 18 Computer Arts Institute (CAI) Open House. San Francisco. Contact: James Mahan, (415)546-5242, *cai@sirius.com* , or URL: *http://www.sirius.com/~cai* .

October 18–19 The Fourth Annual Bionomics Conference. San Francisco. Contact: (415)454-1000, *conf96@bionomics.org* , or URL: *http://www.bionomics.org* .

October 19 Robert Austin Computer Show. Oakland. Robert Austin Corp. Contact: 1-800-243-7041 or URL: *http://www.robertaustin.com* .

October 20 MarketPro Computer Shows & Sales. Stockton. MarketPro. Contact: (415)456-6730, *mpro@marketpro.com* , or URL: *http://www.marketpro.com* .

October 21–24 Ninth Annual Microprocessor Forum. San Jose. Microdesign Resources. Contact: 1-800-527-0288, *mpf@mdr.zd.com* , or URL: *http://www.chipanalyst.com* .

October 23–24 Troubleshooting & Maintenance Of IBM PCs & Compatibles. Concord. SkillPath Seminars. Contact: 1-800-873-7545 or *skillpath@mcimail.com* .

OCTOBER 31–NOVEMBER 1

Managing and Implementing Web/Internet/Intranet Technology

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October 25–November 8 Develop Powerful Presentation Skills With PowerPoint 4.0. Berkeley. Vista Community College. Contact: Mildred Stewart, (510)841-8860, ext. 256.

October 25–26 Troubleshooting & Maintenance of IBM PCs & Compatibles. Oakland. SkillPath Seminars. Contact: 1-800-873-7545 or *skillpath@mcimail.com* .

October 26 MarketPro Computer Shows & Sales. Santa Rosa. MarketPro. Contact: (415)456-6730, *mpro@marketpro.com* , or URL: *http://www.marketpro.com* .

October 27 MarketPro Computer Shows & Sales. Concord. MarketPro. Contact: (415)456-6730, *mpro@marketpro.com* , or URL: *http://www.marketpro.com* .

October 28–29 Troubleshooting & Maintenance Of IBM PCs & Compatibles. Palo Alto. SkillPath Seminars. Contact: 1-800-873-7545 or *skillpath@mcimail.com* .

November

November 2 Robert Austin Computer Show. Oakland. Robert Austin Corp. Contact: 1-800-243-7041 or URL: *http://www.robertaustin.com* .

November 2–3 MarketPro Computer Shows & Sales. Sacramento. MarketPro. Contact: (415)456-6730, *mpro@marketpro.com* , or URL: *http://www.marketpro.com* .

November 3 Computer, Ham Radio, Electronics Swap. Las Positas College, Livermore. Livermore Amateur Radio Klub. Contact: (510)447-3857 (eve.) or (510)783-2803 (day).

November 4–8 8th Annual Open Systems World FedUNIX '96 Conference And Expo. Washington, DC. Washington Area UNIX Users' Group, UniForum. Contact: (301)596-8800 or *oswinfo@mcsp.com* .

November 10 MarketPro Computer Shows & Sales. Vallejo. MarketPro. Contact: (415)456-6730, *mpro@marketpro.com* , or URL: *http://www.marketpro.com* .

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Publication Date:* *11/25/96

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Publication Date:* *12/16/96

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Our annual list of industry leaders and unsung heroes who have had a significant impact on the computer industry during the previous year.

Advertising Space Reservation:* *12/6/96

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BEST VALUE	Mother-board	MB+CPU	Basic System (see Bottom Detail)	Basic System+ 540MB HDD 4MB SVGA CARD SVGA MONITOR (850MB + 29)	Basic System + 1.2GBMB HDD 4MB SVGA CARD SVGA MONITOR (1.6GB + 39)
ALL SYSTEMS COME WITH 72 HOURS BURN IN TEST					
Dual p6-200 Super micro (Two Cpu $610)	499	1079	1239	1679	1789
P6-200 Intel Venus (Aurora +10)	279	869	1039	1475	1599
P5-133 Intel Marl (P5/166+$180)	159	359	529	979	1099
P5-100 Intel Marl (P5/120+$30)	159	289	479	929	1039
P5-133 Intel Atlantis (P5/166+$180)	229	429	569	989	1099
P5-100 Intel Atlantis (P5/120+$30)	229	349	489	909	1029
P5-133 Intel Triton II (P5/166+$180)	95	289	429	879	999
P5-100 Intel Triton II (P5/120+$30)	95	219	359	809	929
P5-133 Intel Endeavor (P5/166+$180)	159	359	499	949	1069
P5-100 Intel Endeavor (P5/120+$30)	159	289	419	869	989
486DX4-120C VLB (DX4/133+$10)	65	99	199	649	769
486DX2-66C VLB (DX4/100 +$15)	65	89	189	639	759

ASUS, SUPER MICRO MB AVAILABLE AT THE LOWEST PRICE

BASIC SYSTEM (ASSEMBLED IN USA) Motherboard & CPU, Mini-Tower Case w/ Power Supply, 101 Enhanced keyboard, 1.44MB Floppy, IDE/IO Controller w/ 2/HD 2/FD 2S /1P /1G Ports

CPU & MEMORY UPGRADE

CPU:

P5/200/166/133/120	LOWEST
486DX130/100/80/66	LOWEST

SIMM:

4/8 MB 72 PIN	$Lowest
16/32MB 72 PIN	$Lowest
EDOM 4/8/16/32	$Lowest
Pipeline Burst 256k/512k	$15/29

A lot more items, call for best competitor's price !

MULTIMEDIA

Toshiba 8X IDE CD-ROM	$97
SONY 8X IDE CD-ROM	89
TEAC SCSI 6X CD-ROM	137
NEC SCSI 8X CD-ROM	199
SB 16 Compatible (ESS Sound Chip)	37
SB 16 /32 PNP	65/109
Stero Speaker 40/60/120/180	20/30/40/50

FLOPPY & HARD DRIVES

FD 1.44MB High Density	23
FD 1.2MB High Density	37
FD Combo 1.2/1.44 MB	79
IDE Hard Disk 540MB/850MB	121/133
IDE Hard Disk 1.2GB/1.6GB	167/195
IDE Hard Disk 2.1GB/2.5GB	225/299
SCSI Hard Disk 1.0GB/2.0GB	249/399
SCSI Hard Disk 4.3GB	779
Zip Drive 100 MB(external/parallel)	174

IDE.SCSI I/O CARDS

Adaptec 2940/UW SCSI Card	165/199
Adaptec 3940 PCI(SCSI)	299
ISA IDE w/ 2S/1P/1G	11
VLB EIDE(4HD/2FD) w/ IO	19
Promise 2300 + EIDE (4HD/2FD)	41

THE BEST BUY FOR THE NOTEBOOK !

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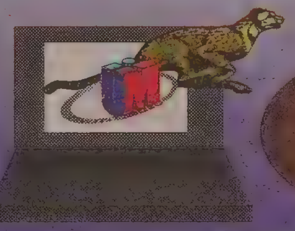
1.44 internal floppy drive
1 serial port, 1 parallel port
PCMCIA Type II slot
SVGA port to support external



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C5X86/100	1449	1549	1649
DX4/100	1409	1509	1609
Pentium 133	2529	2629	2729
Pentium 100	2459	2559	2659

Add $ 99 for 8MB MEMORY
Add $ [illegible] for 16MB MEMORY

VIDEO CARDS

ISA SVGA 512k/1MB	21/31
Circus Logic PCI/VLB	31/31
S3 chip set PCI/VLB	31/31
Diamond 64 1MB/2MB DRAM	67/85
Diamond 64 2MB/4MB VRAM	185/279
ATI Mach 64 1MB/2MB DRAM	65/87
ATI Mach 64 2MB/4MB DRAM	175/279
Matrox Millenium 2MB/4MB WRAM	169/249
Matrox Millenium 8MB WRAM	499
Number 9 Motion 771, 2MB/4MB	215/315

MONITORS

MAG 15/17 95 NI	323/555
Impression 14"/15"/17"	205/279/499
Acer 14"/15"	219/299
CTX 14"/15"	219/309
Sony 15"/17"/20"	435/713/1547
Nano 17"/20"	779/1729
Nokia 15"/17"/21"	433/653/1833
Viewsonic 14"/15"/17"	243/349/585
NEC 15"/17"/20"	381/757/1627

MONTHLY SPECIAL

INTEL Triton II Motherboard
w/ 256 k Cache
w/ Pentium 133 CPU
$ 309

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FAX/MODEM

Bullet 14.4 Fax Modem (int) /voice	27/28
Bullet 28.8 Fax Modem (int) /voice	77/85
Bullet 33.6 Fax Modem (int) /voice	85/99
U.S.Robotics 33.6 winmodem(int)	95
U.S.Robotics 33.6 (int)/voice	131/149
U.S Robotics 33.6 (ext)/voice	147/167

A lot more items, call for

CASES

Mini Tower w/ 230W PS	33
Mid/Compact mid tower w/230W PS	55/47
Full tower w/230 w PS	55
Desktop case w/ 230w PS	37
Power Supply	25
ATX mid/full tower	79/89

KEYBOARDS/MICE

Mitsumi 104 Enhanced Keyboard	13
Keytronic 104 Enhanced	22
Microsoft Natural keyboard	55
Microsoft compatinle serial mouse	7
Microsoft mouse (w/system only)	23
Logitec mouseman (3 button)	23
Logitec trackman	65

NETWORK/NOVELL

3Com Etherlink TP/Combo(509)	57/77
3Com Etherlink TP/Combo(590)	95/115
NE 2000 C network card ISA/PCI	23/39

TAPE/SCANNER/FAN

Colorado 350/t1000/T1400	61/135/189
Cooling Fan w/ heat sink 486/586/686	7/13/19
Artec Scanner: Handheld/Flatbed	69/319

TERMS AND CONDITIONS

1. One year parts warranty on systems purchase
2. Prices and company policy subject to change w/o notice.
3. Not responsible for typographic errors.
4. Return shipping must be insured, prepaid and bearing on RMA# on the shipping label
5. Shipping, insurance and COD charges are extra and non-refundable
6. List price reflect cash discount.and limit to the available stock only.

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CENTRAL EXPWY
MIRALOMA
ARQUES
E. DUANE
101
N
Underpass
LAWRENCE EXPWY.(SOUTH)
SAN JOSE

Calendar Of Events

continued from page 260

3880, *ConfReg@dciexpo.com* , or URL: *http://www.DCIexpo.com* .

November 16 Robert Austin Computer Show. San Francisco. Robert Austin Corp. Contact: 1-800-243-7041 or URL: *http://www.robertaustin.com* .

November 17 MarketPro Computer Shows & Sales. Santa Rosa. MarketPro. Contact: (415)456-6730, *mpro@marketpro.com* , or URL: *http://www.marketpro.com* .

November 18–22 COMDEX Fall '96. Las Vegas, NV. Contact: URL: *http://www.comdex.com* .

November 23 Robert Austin Computer Show. Oakland. Robert Austin Corp. Contact: 1-800-243-7041 or URL: *http://www.robertaustin.com* .

December

December 1 Computer, Ham Radio, Electronics Swap. Las Positas College, Livermore. Livermore Amateur Radio Klub. Contact: (510)447-3857 (eve.) or (510)783-2803 (day).

December 1–4 Computer & The Law III Symposium. San Jose. Contact: (617)232-0514, *office@sug.org* , or URL: *http://www.sug.org* .

December 4–6 Handheld And PDA Expo '96. San Mateo. Contact: (415)252-8008 or *info@wmsltd.com* .

December 7 Robert Austin Computer Show. San Francisco. Robert Austin Corp. Contact: 1-800-243-7041 or URL: *http://www.robertaustin.com* .

December 9–13 Project World. Santa Clara. Contact: 1-888-943-4444, or URL: *http://www.projectworld.com/projectworld* .

December 14–15 Computer Marketplace. Reno Livestock Events Center. National Productions. Contact: 1-800-800-5600.

December 21 Robert Austin Computer Show. Oakland. Robert Austin Corp. Contact: 1-800-243-7041 or URL: *http://www.robertaustin.com* .

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COMPUTER SHOWS & SALES
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SAT. OCT. 26 - SANTA ROSA
Sonoma Co. Fairgrounds
SUN. OCT. 27 - FRESNO
Fresno Fairgrounds
SUN. OCT. 27 - CONCORD
Centre Concord
$1 OFF
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NOV. 2 & 3 - SACRAMENTO
Cal Expo *2 DAY SHOW*
SAT. NOV. 9 - FRESNO
Fresno Fairgrounds
SUN. NOV. 10 - VALLEJO
Solano Co. Fairgrounds
MON. NOV. 11 - MODESTO
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December 28 Robert Austin Computer Show. San Francisco. Robert Austin Corp. Contact: 1-800-243-7041 or URL: *http://www.robertaustin.com* .

Classes, Seminars, Workshops

October

October 12 Basics of Local Area Networks. Hayward. Network Data Solutions. Contact: (510)780-0243.

October 12 Microsoft NT Server Installation And Configuration BootCAMP. Hayward. Network Data Solutions. Contact: (510)780-0243.

October 13 & 20 Photoshop For Artists Class. Berkeley. Kala Institute. Contact: (510)549-2977.

October 14 Complete Online Novell CNA3 & CNA4 Training. Berkeley. Cyber State University. Contact: (510)253-8735.

October 14 Publish the Net 9: Setting Up ListServes On A Macintosh WWW Server. San Francisco. Center for Electronic Art. Contact: (415)512-9300, *info@cea.edu* , or URL: *http://www.cea.edu/* .

October 14–16 Getting Started With Director For Windows. San Francisco. SFSU Extended Education. Contact: (415)904-7740.

October 14–December 16 Advanced QuickTime And Interactive Video. San Francisco. SFSU Extended Education. Contact: (415)904-7740.

October 14–November 13 Advanced Digital Photography. San Francisco. SFSU Extended Education. Contact: (415)904-7740.

October 14–18 Object-Oriented Analysis And Design. Santa Clara. Learning Tree International. Contact: 1-800-850-9197.

October 15 Creating Web Graphics With Adobe Photoshop. Menlo Park. Computer College of Silicon Valley. Contact: (415)697-0566, or URL: *http://www.portal.com/~ccsv* .

October 15 Introduction to Excel For Windows Class. Walnut Creek. Computer Education Center. Contact: (510)937-2566.

October 15–18 Local Area Networks. Santa Clara. Learning Tree International. Contact: 1-800-850-9197.

October 15–18 Advanced Java Programming. Santa Clara. Learning Tree International. Contact: 1-800-850-9197.

October 15–18 PC Networking. Santa Clara. Learning Tree International. Contact: 1-800-850-9197.

October 16 Hands-On Java Programming. Menlo Park. Computer College of Silicon Valley. Contact: (415)697-0566, or URL: *http://www.portal.com/~ccsv* .

October 16 Information Retrieval On The Internet. Menlo Park. Computer College of Silicon Valley. Contact: (415)697-0566, or URL: *http://www.portal.com/~ccsv* .

October 16 Introduction To Word For Windows Class. Walnut Creek. Computer Education Center. Contact: (510)937-2566.

October 16 Making Web Pages – Introduction To HTML. Menlo Park. Computer College of Silicon Valley. Contact: (415)697-0566, or URL: *http://www.portal.com/~ccsv* .

October 17 Intermediate Excel For Windows Class. Walnut Creek. Computer Education Center. Contact: (510)937-2566.

October 17–18 Windows NT Server Basics Seminar. San Francisco. Professional Learning Center. Contact: (714)725-0758.

October 18 How To Use Netscape – Part II. Menlo Park. Computer College of Silicon Valley. Contact: (415)697-0566, or URL: *http://www.portal.com/~ccsv* .

October 18 Implementing Anti-Virus Strategies For Novell Netware And Client/Server Architecture. Hayward. Network Data Solutions. Contact: (510)780-0243

October 18 Making Web Pages – Forms & Scripts. Menlo Park. Computer College of Silicon Valley. Contact: (415)697-0566, or URL: *http://www.portal.com/~ccsv* .

October 18 Multimedia Pioneers Lecture Series: Ted Nelson. San Francisco. SFSU Multimedia Studies Program. Contact: (415)904-7740.

October 18 Powerpoint for Windows Class. Walnut Creek. Computer Education Center. Contact: (510)937-2566.

October 19 Microsoft NT Server 4.0, TCP/IP, And The Internet. Hayward. Network Data Solutions. Contact: (510)780-0243.

October 19 Publish The Net 6: Players, Plug-ins, And Applets. San Francisco. Center for Electronic Art. Contact: (415)512-9300, *info@cea.edu* , or URL: *http://www.cea.edu/* .

continued on page 268

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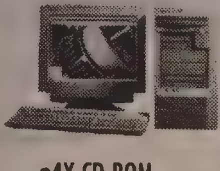

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- 16 Bit Sound Card
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- Windows 95

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- Opti PCI MB w/ 256K PL
- P120 Cyrix CPU w/ Fan
- 16 MB EDO RAM
- 1.09 GB Hard Drive
- 1.44 MB Floppy Drive
- PCI SVGA w/ 1 MB
- Mini Tower w/Display
- 104 Win 95 Keyboard
- Mouse w/ Pad
- 14" .28 NI SVGA Monitor
- 8X CD-ROM
- 16 Bit Sound Card
- 60 Watt Speakers
- 28.8K Fax Modem
- Windows 95
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- P120 Intel CPU w/Fan
- 8MB EDO RAM
- 1.09 GB Hard Drive
- 1.44 MB Floppy Drive
- PCI SVGA w/1 MB
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intel inside

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- Mini Tower Case w/PS
- Microsoft Natural Keyboard
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- P120 Intel CPU w/Fan
- 16 MB EDO RAM
- 1.09 GB Hard Drive
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- PCI SVGA w/1 MB
- PCI EIDE Ctr w/IO 16550
- Mini Tower w/Display
- 104 Win 95 Keyboard
- Mouse w/Fan
- 14" .28 NI SVGA Monitor
- 8X CD-ROM
- 16 Bit Sound Card
- 60 Watt Speakers
- 28.8K Fax Modem
- Windows 95
- Multimedia Bundle

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Pentium® 166.............$1339

TRITON III 120 ULTRA MULTIMEDIA

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- P120 Intel CPU w/Fan
- 16 MB EDO RAM
- 1.6GB Hard Drive
- 1.44 MB Floppy Drive
- PCI EIDE Ctr w/IO 16550
- Stealth 2001 w/2 MB
- Mini Tower w/Display
- 104 Win 95 Keyboard
- Mouse w/Fan
- 15" .28 NI SVGA Monitor
- 8X CD-ROM
- Sound Blaster 16
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- 28.8K Fax Modem
- Windows 95

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Pentium® 150/ 133 .$1469/ 1369
Pentium® 166.............$1569

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486 VLB Motherboard/256K	$19
4/586 PCI + VLB EIDE W/IO 16550 MB W/256K.	69
Pentium® PCI EIDE/IO 16550 MB w/256K	82
Intel Triton 3 EIDE /I/O 16550 w/256K PL	99
Intel Endeavor EIDE/IO 16550 w/ 256K PL	199
Intel Atlantis EIDE/IO 16550 Sound Video w/ 256K PL	269
Intel Marco EIDE/IO w/ 256K PL (NEW)	209

CPU's

AMD 586-133	$39
Cyrix P166/P150/P120	269/159/119
Intel Pentium® 100/75.	139/99
Intel Pentium® 133/120	209/159
Intel Pentium® 166/150	399/279
Cooling Fan Pentium/586	4/3

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4 MB 30 Pin 3 Chip	29
4 MB 72 Pin 2 Chip	24
4 MB 72 Pin 6/8 Chip	26
8 MB 72 Pin 4 Chip	42
8 MB 72 Pin 8/16 Chip	46
16 MB 72 Pin 8 Chip	84
16 MB 72 Pin EDO 60ns	99

HARD DRIVES

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850 MB EIDE Quantum	145
1.08 MB EIDE Fujitsu	155
1.2 GB EIDE Conner	169
1.6 GB EIDE Western Digital	211
2.1 GB EIDE Maxtor	239

FLOPPY DRIVES

1.44 MB Epson	$20
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1.44 MB Teac	24
1.2 MB Epson	29
1.2 MB Mitsumi	36

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6X BTC CD-ROM	69
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Trident 9440 PCI w/ 2/1 MB DRAM	46/34
Trident 9680 PCI DRAM w/ 2/1 MB DRAM	51/39
Diamond Stealth 2000 w/ 2/1 MB DRAM	81/69
Diamond Stealth 2001 w/ 2/4 MB VRAM	299/199
ATI Winboost PCI w/ 2/1 MB DRAM	91/79
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Matrox PCI w/ 4/2 MB VRAM	358/248

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28.8 Fax Modem	74
28.8 Fax Modem w/Speaker Phone	89
28.8 Fax Modem US Robotics	99
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33.6K Fax Modem w/Voice	106

SOUND CARDS

Sound Card ESS 1688 w/PNP	$33
Sound Card ESS 1868 w/PNP/3D	36
Sound Blaster 16 w/PNP	68
Sound Blaster 32 w/ PNP	119

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180 Watt	35

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Full Tower w/ Display	59
Desktop Case	36

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104 Key Mitsumi	$11
104 Key Qtronix	13
3 Button Mouse	5
Microsoft Natural Keyboard	54
Microsoft Serial Mouse	21

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14" .28 NI SVGA	$208
15" .28 NI SVGA	289
Sony 15SXi 15" 1280x1024 .25	375
17" .25 1280x1024 Sony SF2	719
17" .25 1600x1280 ViewSonic	699
17" .28 NI 1280x1024 w/ Digital Control	518

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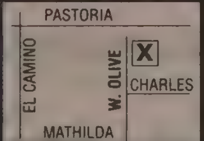

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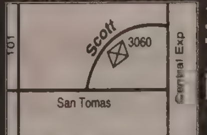

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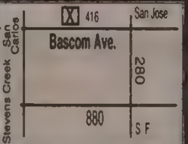

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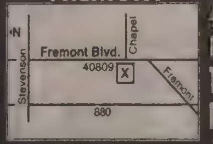

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- 8X EIDE CD-ROM Drive
- 16-Bit Sound Card
- 2 - PCI EIDE Controller & Floppy
- 2 - 16550 Serial & 1-EPP/ECP Parallel Ports
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- Mid-Tower Case w/230W P.S.
- 15" SVGA Monitor 1280x1024 .28 NI
- Multimedia Speakers ,80W
- Enhanced 104 Key Keyboard
- Microsoft OEM Serial Mouse w/Pad
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100MHz	**$1359**
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- Intel 133MHz Pentium® Processor
- 16MB RAM, Exp. to 128MB
- 1.2GB EIDE Hard Disk Drive
- 1.44MB Floppy Disk Drive
- 1MB SVGA Card, Exp. to 2MB
- Mid-Tower Case
- HP Keyboard & Mouse
- Windows 95 or MS DOS
- HP 3-Year Limited Warranty Monitor Not Included

#D3811B	**$1699**

VECTRA VL4/166

- Intel 166MHz Pentium® Processor
- 16MB EDO Memory
- 1.2GB EIDE Hard Disk Drive
- 1.44MB Floppy Disk Drive
- 1MB SVGA Card
- Desktop Case
- HP Keyboard & Mouse
- Windows 95 preloaded
- HP 3-Year Limited Warranty Monitor Not Included

#D3697B	**$1949**

VECTRA VL4/100

- 100MHz Pentium® Processor
- 16MB RAM, Exp. to 128MB
- 1.2GB HDD/1.44MB FDD
- Desktop Case
- 1MB SVGA Card
- HP Keyboard & Mouse
- MS DOS/Windows for Workgroups
- 3-Year Limited Warranty Monitor Not Included

#D3672B	**$1465**

VECTRA VU 6/200

- 200MHz Pentium® Pro Processor
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- 2GB HDD/1.44MB FDD/SCSI-2
- 2MB Matrox Millennium SVGA Card, Exp. to 8MB
- 32-Bit Ethernet Card 10/100
- 4X SCSI CD-ROM
- HP Keyboard & Mouse
- MS Windows NT 3.51
- 3-Year Limited Warranty Monitor Not Included

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- Intel Marl ATX Motherboard w/Triton 430 HX Chipset
- Intel Pentium® Processor (75-200MHz) w/Heatsink
- 256K Pipeline Burst L2 Cache
- 16MB RAM, Exp. to 128MB
- 1.44MB Floppy Drive
- 2.0GB EIDE Hard Drive
- 8X EIDE CD-ROM Drive
- Sound Blaster 16-bit Sound Card
- 2-PCI EIDE Controller & Floppy
- 2-16550 Serial & 1-EPP/ECP Parallel
- Diamond Stealth 64 PCI w/2MB DRAM
- "ATX" Tower Case w/235W PS
- 17" Proton Monitor .28 1280x1024
- 28.8 Fax/Modem Int
- Multimedia Speakers 80W
- 104 Keyboard PS/2 Type
- Microsoft OEM PS/2 Mouse w/Pad
- Microsoft Windows 95 (OEM, CD Ver)

100MHz	**$1839**
133MHz	**1929**
166MHz	**2149**
200MHz	**2389**

ECI CYRIX 6X86 P-5 TRITON III VALUE SYSTEM

- Intel Triton 430VX Chipset Board
- Cyrix 686 Processor w/CPU Fan
- 256K Pipeline Burst L2 Cache, Exp. to 512K
- 8MB exp. to 128MB
- 1.2GB Hard Drive
- 1.44MB Floppy Drive
- 2 - PCI EIDE Controller & FDC on Board
- 2 - 16550 EPP/ECP Ports on Board
- 15" SVGA MONITOR 1280x1024 .28dp NI
- EPEG PCI SVGA Card w/1MB (exp. to 2 MB)
- Mini-Tower Case w/230W Power Supply
- Enhanced 104 Keyboard
- Mitsumi Serial Mouse w/Pad

P-133+	**$929**
P-150+	**995**
P-166+	**1049**

CD-ROM DRIVES

TOSHIBA

8X EIDE XM-5602B

- Caddyless • 256K Buffer
- 145ms/1200kb/sec

int **$109**

NEC

8X SCSI CDR-1410A

- Caddyless 140ms OEM
- 1200KB/Sdc 256K Buffer

int **$239**

Addonics

Portable 8X Parallel Port CD

- Portable 8X ATAPTI CD-ROM Drive
- Easy to use no jumper ID Setting
- Built-in switchable power supply
- Audio jack for CD playback
- Includes cables, drivers, and installation disk

$289

• 8X w/16Bit Sound	$385
• Pocket Rocket 2.5" HD 1.0GB	459
• Pocket Rocket 2.5" HD 1.6GB	469
• 4X4 CD Changer	355

RECORDABLE CD & OPTICAL DRIVE

HP CD-Writer 4020i 4X	$769
Sony CSP920S 2X SCSI	695

ECI P5-TUCSON MULTIMEDIA

- Intel Tucson ATX w/430HX Board
- Intel Pentium® Processor w/Heatsink
- 256K Pipeline Burst L2 Cache
- 16MB 60ns RAM, Exp. to 128 MB
- 1.44 MB Floppy Drive
- 1.6GB EIDE Hard Drive
- 8X Speed EIDE CD-ROM Drive
- Yamaha OPL3 SA Audio on Board
- 2 - PCI EIDE Controller & FDC on Board
- 2 - 16550 Serial & EPP/ECP Ports on Board
- Diamond Stealth 64 PCI w/2MB DRAM
- 15" SVGA Monitor, 1280x1024, .28dp, NI
- ATX Tower Case w/235W Power Supply
- Multimedia Speakers 80W
- ECI 104 Keyboard w/PS/2 Adapter
- Microsoft OEM PS/2 Mouse w/Pad
- Microsoft Windows 95, CD ROM ver.

100MHz	**$1439**
133MHz	**1519**
166MHz	**1729**

ECI P5-TRITON III MULTIMEDIA

- Intel Triton 430VX Chipset OEM Board
- Intel Pentium® Processor w/CPU Fan
- 256KB Pipeline Burst L@ Cache, Exp. to 512K
- 16MB RAM, Exp. to 128MB
- 1.44MB Floppy Disk Drive
- 1.2GB EIDE Hard Disk Drive
- 8X EIDE CD-ROM Drive
- 16-Bit 3D Sound Card
- 2-PCI EIDE Controller & FDC on Board
- 2-16550 Serial & EPP?ECP Port on Board
- MPEG PCI SVGA Card w/2MB DRAM
- 28.8 Internal Data/Fax Modem
- Mini-Tower Case w/230W PS
- 15" SVGA Monitor, 1280x1024, .28dp, NI
- Multimedia Speakers (50W PMPO)
- Enhanced 104-Key Keyboard
- Mitsumi Serial Mouse w/Pad
- Microsoft Windows 95 (OEM CD-ROM ver.)

100MHz	**$1329**
133MHz	**$1419**
166MHz	**$1629**
200MHz	**$1859**

MULTIMEDIA UPGRADE KITS

• 4X/8X CD-ROM, 16 Bit Sound Card, and 60W Speakers	$129/175

ETHERNET CARDS

3Com®

3COM 3C509 TP/5Pack ISA	**$109/335**
3COM 3C509 Combo/5Pack ISA	**119/495**
3COM 3C590 PCI TP/Combo	**119/170**
3COM 3C905TX PCI 10/100 TP/5Pack	**170/595**

intel®

PCLA 8225 Pro 10 PCI/5 Pack	$79/375
PILA 8465B Pro 100 PCI/5 Pack	109/479
PCLA 8220A Pro 10 ISA TP/5 Pack	85/395
PCLA 8100 Pro 10 Combo/5 Pack	95/435

SIIG

PCI Combo	$75
ISA Combo	45
8/16 Port Hub	119/299

ECI P-6 VENUS "ATX" SUPER SERVER

- Intel 200MHz Pentium® Pro Processor w/256KB L2 Cache
- Intel Pentium® Pro Venus "ATX" Mainboard
- 32MB EDO RAM, Exp. to 128MB
- 1.44MB Floppy Drive
- 4.3GB SCSI Hard Disk
- 8X SCSI NEC CD-ROM Drive
- Adaptec 2940 PCI SCSI Controller
- 2 - PCI EIDE Controller & FDC on-board
- 2 - 16550 Serial & EPP/ECP Port on board
- Diamond Stealth 64 PCI w/1MB DRAM
- 3COM 3C905TX PCI 10/100 Ethernet Card
- ATX Case w/235W Power Supply
- 15" Monitor, 1280x1024, .28dp, NI, FS
- 104-Key Keyboard (PS-2 Style)
- Microsoft OEM PS-2 Mouse w/Pad

200MHz	**$3095**
Microsoft Windows NT Server 4.0 w/system purchase	**$CALL**
Microsoft Windows NT Workstation 4.0	**$169**

✓ FAX MODEMS

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28.8 Win Fax Modem Int #1125	**$115**
28.8 Sportster w/Voice #1172	**188**
28.8 /Sportster V.34 Int/Ext #840/839	**149/169**

PRACTICAL PERIPHERALS

28.8 Fax/Modem Int/Ext	**$139/135**

MOTOROLA

28.8 V.42 Modem Surfer Int/Ext	**115/129**

✓ PCMCIA FAX MODEMS

US Robitics 28.8	$215
Practical Peripherals 28.8	235
Megahertz 28.8	235
Xircom 28.8	239

ECI QUALITY MOTHERBOARDS

486 PCI (#433) DX2/66-DX4/133 256KB L2 Cache, 3xISA, 3xPCI, 1xISA/PCI 2xEIDE, FDC, 2xSerial, Parallel	**$109**
Pentium® Triton III (#557) 75-200MHz 256KB L2 Cache, 2xISA, 3xPCI, 1xISA/PCI 2xEIDE, FDC, 2xSerial, Parallel	**$139**
Pentium® Triton II (#553) 75-200 MHz 256KB L2 Cache, 3xISA, 3xPCI, 1xISA/PCI 2xEIDE, FDC, 2xSerial, Parallel	**$155**
Intel Advanced/ML "Marl" 75-200MHz 256KB L2 Cache, 3xISA, 3xPCI, 1xISA/PCI 2xEIDE, FDC, 2xSerial, Parallel	**$169**
Intel TC430HX "Tucson" 75-200MHz 256KB L2Cache, 3xISA, 3xPCI, 1xISA/PCI 2xEIDE, FDC, 2xSerial, Parallel, Sound	**$219**
Intel VX440FX "Venus" 150-200MHz w/Sound 3xISA, 3xPCI, 1xISA/PCI 2xEIDE, FDC, 2xPS/2, 2xSerial, Parallel	**$309**
ASUS Dual Pentium® Pro 150-200MHz 2xISA, 4xPCI, 1xISA/PCI/ASUS MediaBus 2xEIDE, FDC, 2xPS/2, 2xSerial, Parallel	**$669**

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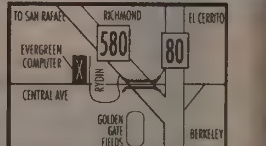

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NOTEBOOKS

HEWLETT PACKARD

The HP OmniBook 5000 Fast & Reliable!

Model	Processor	RAM	HD	Screen	Price	#
5500CS	Pentium®-120	16MB	1.3GB	10.4" Dual Scan	$3729	F1325A
5000CTS	Pentium®-120	16MB	1.2GB	10.4" SVGA TFT	$3919	F1324A
5500CT	Pentium®-133	16MB	1.3GB	12" SVGA TFT	$4499	F1321A

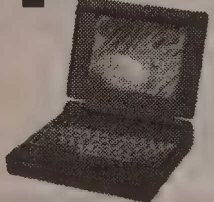
AST

ASCENTIA 950 Notebook

Model	Processor	RAM	HD	Screen	Price
950N	Pentium®/120	8MB	1.2GB	11.8"Active Color	$3369
950N	Pentium®/120	8MB	800MB	11.8"Active Color	$3079
P30	Pentium®/100	8MB	1.2GB	11.3"Active Color	$2575
J30	Pentium®/100	8MB	800MB	10.4"Dual Scan	$1995
J10	Pentium®/75	8MB	500MB	10.4"Dual Scan	$1895
P50	Pentium®/133	8MB	1.2GB	11.3"Active Color	$3629

DFI

6600/6200 Notebook



- Intel Pentium® CPU
- 8MB RAM exp. 24/32/40/48MB
- 256K L2 Cache
- 2MB Video RAM MPEG mode DRAM
- 1.44MB Floppy Drive
- 6X CD-ROM Drive
- 1.0MB Removable Hard Drive
- One Type II and One Type III PCMCIA Slots
- Trackball Pointing Device
- Built-In MultiMedia Package

	Dual Scan 11.3"	Active 12.1"
100MHz	**$CALL**	**$CALL**
133MHz	**$CALL**	**$CALL**

TOSHIBA

T110CT Pentium® 100, 8MB, 810HD, 11.3" Active Color	**CALL**
T110CS Pentium® 100, 8MB EDO, 810HD, 11.3" DS Color	**$2159**
T420CDT Pentium® 100, 8MB EDO, 6X CD-ROM, 1.2GB, 11.3" TFT Color	**CALL**
T500CDT Pentium® 120, 16MB, 1.2GB, 12.1" TFT Color	**CALL**
T720CDT Pentium® 133, 16MB, 1.2GB, 6X CD-ROM, 12.1" TFT Color	**CALL**
T650CDT Pentium® 133, 16MB, 1.2GB, 11.3" TFT Color	**CALL**

PC HARD DRIVES

Quantum

2.5GB EIDE QM 52550 BFA	$309
2.1GB SCSI VP32150S	465
4.3GB SCSI XP 34300SW	839

Maxtor

1.2GB EIDE	$189
1.6GB EIDE 71626AP	215
2.0GB EIDE 72004A	245

MICROPOLIS

4.2GB SCSI MC3243 8.5ms 3.5"	$915
9.1GB SCSI MC1991 12ms 5.25"	1799

WESTERN DIGITAL

1.2GB EIDE 12ms WD31200	$207
1.6GB EIDE 10ms WD31600	229
2.1GB EIDE 12ms WD32100	289
2.5GB EIDE 12ms WD32500	339

Seagate

540MB EIDE ST3541A	$145
1.2GB EIDE ST31276A	189
1.6GB EIDE ST31621A	215
2.1GB EIDE ST32140A	259

CREATIVE

CREATIVE LABS, INC.

32 PnP	$159
AWE 32 PnP	239
Sound Blaster 16 Vibra	85
Phone Blaster	175
Blaster CD 8X w/ 3 CD Titles	199
Blaster CD 8X w/ 10 CD Titles	419

EXTERNAL SCSI DRIVE CASES

- High Quality Metal Cases
- 2 Centronics Output
- Noise-Free Fan
- External SCSI ID Switch
- Power Cable & Hardware

3.5" or 5.25" Half Height	$59/65
Two (2) 5.25" Half Height	95
Four (4) 5.25" Half Height	149

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BACKUP POWER SUPPLIES AT

APC 280VA Back-UPS	$109
APC 450VA Back-UPS	199
APC 600VA Back-UPS	259
APC 1000 Backup-UPS Pro	$385
APC 1000 Smart-UPS	469
APC 1400 Smart-UPS	599

MONITORS

THREE-I

14"	1450G	1024x768	28	$233
15"	1510	1280x1024	.28, FS	319

PROTON

14"	GB1449A	1280x1024	28	$239
15"	GM1563	1280x1024	28, FS	319
17"	GM1764	1280x1024	28, FS	535

PRINCETON

17"	EO17	1280x1024	28 PC & MAC	$609
17"	EO70	1280x1024	28	569
17"	Ultra 17+	1280x1024	28	589
17"	Ultra70F	1280x1024	28	529
20"	Ultra 20	1600x1280	.28	1099

MAG

15"	DX15T	1280x1024	.26, LR, PC & Mac	$399
17"	DX17T	1280x1024	.25, LR, PC & Mac	699

VIEWSONIC

14"	14ES	1024x768	28	$269
15"	15ES	1024x768	.28, LR	345
15"	15GS	1280x1024	.28, LR	389
15"	15GA	1280x1024	.28, LR, Spk, PC & Mac	449
17"	17GS	1280x1024	.27, LR, PC & Mac	615
17"	17GA	1280x1024	.27, LR, Spk, Mic, PC & Mac	679
17"	17PS	1600x1280	.27, LR, PC & Mac	709
20"	20G2	1600x1280	.28, LR, PC & Mac	1099
21"	P810	1600x1280	.25, LR, PC & Mac	1579
21"	P815(New)	1800x1440	.25, LR, PC & Mac	1895

SONY

15"	15SXI	1024x768	.25, LR	$389
15"	15sf II	1280x1024	.25, LR, PC & Mac	469
17"	17sf II	1280x1024	.26, LR, PC & Mac	759
20"	20sf II	1600x1280	.25, LR, PC & Mac	1609

NEC

15"	C500	1280x1024	.28 LR PC	$395
15"	M500	1280x1024	.28 LR w/5PK	489
15"	XV15+	1024x768	.28, LR, PC & Mac	465
17"	XV17+	1280x1024	.28, LR, PC & Mac	765
17"	XP17	1280x1024	.28, LR, PC & Mac	1029

TAPE BACKUPS

CONNER TAPE DRIVES

850 MB External Parallel Port	$239
3.2 GB Internal Runs Off Floppt Port	209
4.0 GB Internal SCSI TSM 4000RSBE	319

COLORADO MEMORY SYSTEMS INC.

800MB T-1000 Internal	$155
1.4GB DJ-50 Jumbo 1400 Internal	195
8.0GB T-4000S SCSI II	395

IOMEGA TAPE DRIVE

800MB Int./Ext.	$119/149
3.2GB Int./Ext.	239/275

IOMEGA ZIP DRIVE

100MB Zip Drive SCSI or Parallel	$195
100MB Zip Cartridge 3Pak/10Pak	49/145
1GB JAZ Drive Int./Ext. SCSI	385/485
1GB JAZ Cartridge 1Pcs/5Pak	99/459

PRINTERS

HEWLETT PACKARD

LASERJET PRINTERS

5L, 1MB, 4ppm, 600dpi	$469
5P, 2MB, 6ppm, 600dpi	835
5MP, 3MB, 6ppm, 600dpi	1015
4V, 4MB, 16ppm, 600dpi	1889
4MV, 12MB, 16ppm, 600dpi	2689
5, 4MB, 12ppm, 600dpi	1297
5N, 4MB, 12ppm, 600dpi	1499
5M, 6MB, 12ppm, 600dpi	1699
5Si, 4MB, 24ppm	2719
5SiMX, 12MB, 24ppm	3695
Color LaserJet 5, 20MB 7B, 35ppm	5689
Color LaserJet 5M, 36MB, 7B, 30ppm	6995

DESKJET PRINTERS

400C 600x300	$219
680C 600x600	299
820CXI 600x360	399
870CXI 600x600	489
1600C 600x600	1149
1600CM 600x600 w/PS	1875

SCANNERS

HP SCANJET 4C HEWLETT PACKARD

- 2400-dpi enhanced resolution - 600dpi optical w/adobe Photoshop LE

• Calera Word Scan OCR Software	**$869**
• **Scanner Jet 4S for PC B/W Only**	**249**
4P, 24-Bit, Color 300dpi	499
4si, 8 Bit, Grayscale 300dpi	2339

HEWLETT PACKARD COPYJETS

Copyjet Color 7 Black/3 Color ppm	$1675
Copyjet M Color 7 Black/3 Color ppm	2475

HP TONER CARTRIDGES

HP 92275A HP IIP, IIP+, IIIP	$79
HP 92295A HP IID, II, III, IVD	79
HP 92291A HP IIISi, IVSi	119
HP 92298A HP4 4+, 4M, 4M+	105
HP 92274A HP4L, 4P,4MP	69
HP C3903A HP 5P, 5MP	85
HP C3906A HP 5L	79
HP 51645A HP850C Black/Color	29/35

EPSON

LQ-1070 Plus 24 Pin 135 Columns	$399
LQ-570 Plus 24 Pin 80 Column	269
STYLUS Color IIS	145
STYLUS Color Pro	445

✓ VGA CARDS

ATI

Ultra+ 2MB-D Mach-64 PCI	$99
WIN Turbo 2MB Mach-64 PCI VRAM	209
WIN Turbo 4MB Mach-64 PCI VRAM	339

DIAMOND

Stealth 64 2MB DRAM PCI	$95
Stealth 64 2MB VRAM PCI/VLB	215/CALL
Stealth 64 4MB VRAM PCI/VLB	325/CALL

OTHERS

Cirrus Logic VLB w/1MB	$69
Trident 9680 PCI w/ MPEG	49

MATROX

Millennium PCI 1600x1280 w/2MB or 4MB WRAM	$249/369

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Resources

Calendar Of Events

continued from page 264

October 19 Using AIX, TCP/IP, And The Internet. Hayward. Network Data Solutions. Contact: (510)780-0243.

October 19–20 Creating Interactive Animation In HyperCard For Beginners Class. Berkeley. Kala Institute. Contact: (510)549-2977.

October 21 Careers In Computer Animation. San Francisco. Center for Electronic Art. Contact: (415)512-9300, *info@cea.edu* , or URL: *http://www.cea.edu/* .

October 21 Complete Online Novell CNE3 & CNE4 Training. Berkeley. Cyber State University. Contact: (510)253-8735.

October 21 Internet 202: A Hands-On How To Search The Internet Seminar. San Francisco. Internet Literacy Consultants. Contact: (415)469-8271 or *admin@matisse.net* .

October 21 Internet 303: A Hands-On Intro To Hypertext Markup Language Authoring Seminar. San Francisco. Internet Literacy Consultants. Contact: (415)469-8271 or *admin@matisse.net* .

October 21 Making Web Pages – Intermediate HTML. Menlo Park. Computer College of Silicon Valley. Contact: (415)697-0566, or URL: *http://www.portal.com/~ccsv* .

October 21–November 11 Photoshop 2. San Francisco. Center for Electronic Art. Contact: (415)512-9300, *info@cea.edu* , or URL: *http://www.cea.edu/* .

October 21–23 Online Documentation. San Francisco. Seminars in Usable Design. Contact: (303)234-0123 or URL: *http://www2.csn.net/suds/* .

October 22 Intermediate Word For Windows Class. Walnut Creek. Computer Education Center. Contact: (510)937-2566.

October 22 Making Web Pages – Intermediate HTML. Menlo Park. Computer College of Silicon Valley. Contact: (415)697-0566, or URL: *http://www.portal.com/~ccsv* .

October 22 Making Web Pages – Netscape Extensions to HTML. Menlo Park. Computer College of Silicon Valley. Contact: (415)697-0566, or URL: *http://www.portal.com/~ccsv* .

October 22 Selling Products And Services On The Internet. San Francisco. Internet Literacy Consultants. Contact: (415)575-1156 or URL: *http://www.matisse.net/register.html* .

October 22–25 High-Speed WANs. Santa Clara. Learning Tree International. Contact: 1-800-850-9197.

October 22–25 Java Programming for The World Wide Web. Santa Clara. Learning Tree International. Contact: 1-800-850-9197.

October 22–25 Local Area Networks. Santa Clara. Learning Tree International. Contact: 1-800-850-9197.

October 22–25 Network Design And Optimization. Santa Clara. Learning Tree International. Contact: 1-800-850-9197.

October 23 Introduction To Web Graphics. Menlo Park. Computer College of Silicon Valley. Contact: (415)697-0566, or URL: *http://www.portal.com/~ccsv* .

October 23 Making Web Pages – Intermediate. Menlo Park. Computer College of Silicon Valley. Contact: (415)697-0566, or URL: *http://www.portal.com/~ccsv* .

October 23–November 13 Photoshop 3. San Francisco. Center for Electronic Art. Contact: (415)512-9300, *info@cea.edu* , or URL: *http://www.cea.edu/* .

October 24 Intermediate Wordperfect For Windows Class. Walnut Creek. Computer Education Center. Contact: (510)937-2566.

continued on page 274

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PENTIUM® PRO MULTIMEDIA

- **Intel Venus Motherboard**
- **Intel Pentium® Pro 200MHz CPU**
- **256K Pipeline Burst Cache on CPU**
- 16MB RAM 60ns 72-pin EDO
- 2.0GB EIDE Hard Drive, WD
- 1.44MB Floppy Drive
- Diamond Stealth 64 w/2MB VRAM
- 8X Toshiba CD-ROM, 145ms
- SoundBlaster 16 Sound Card
- Yamaha Stereo Speakers
- Microsoft Natural Keyboard
- ATX Medium Tower Case w/250W PS
- Microsoft Windows 95

Monitor Not Included

Pentium® Pro 200MHz.....$2018

6X86-150+MHz MULTIMEDIA

- IBM CPU w/Math Co.
- Triton Chipset
- 256K Pipeline Burst Cache 150+
- 8MB RAM
- 850MB EIDE Hard Drive
- PCI SVGA Card w/1MB
- 8X CD-ROM Drive
- 16-Bit Sound Card & Speakers
- 1.44 Floppy Drive
- 14" NI .28 SVGA Monitor
- Enhanced Case with Power Supply
- Mitsumi Keyboard for Windows 95
- Microsoft Compatible Mouse w/Pad
- 200 Titles

SPECIAL SALE
150+MHz
$916

SUPER MULTIMEDIA

- **Pentium® Chip-Based Intel™ Endeavor II Motherboard**
- **256K Pipeline Burst Cache**
- Intel™ Pentium® Processor w/heatsink & fan
- 16MB EDO 60ns Memory
- **1.2GB 9ms EIDE Hard Drive, WD**
- Diamond Stealth 64 w/2MB VRAM PCI
- **8X EIDE CD-ROM Drive, 145ms Toshiba**
- 16-Bit SoundBlaster
- 180Watt Stereo Speakers
- 1.44 Floppy Drive
- Medium Case with 230W PS
- MS Mouse
- Windows 95 Keyboard
- 17" MAG SVGA Monitor 1280x1024 .26
- 200 Titles

P5-100MHz Endeavor II	**$1618**	**P5-133MHz Endeavor II**	**$1700**
P5-120MHz Endeavor II	**$1628**	**P5-166MHz Endeavor II**	**$1895**
Dual Pentium*	**CALL**	**P5-200MHz Endeavor II**	**$2145**

DREAM MULTIMEDIA

- **Pentium® Chip-Based PCI Motherboard**
- **256K Pipeline Burst Cache**
- Intel™ Triton Chipset
- 16MB EDO RAM exp. to 128MB (72-pin)
- 1.0GB Hard Drive
- Diamond Stealth 64 PCI Video w/2MB
- Built-in IDE/IO Controller (16550)
- Toshiba 8 Speed CD-ROM Drive, 145ms
- MCD 16-Bit Sound Card w/Speakers
- 1.44 Floppy Drive
- 15" SVGA .28 Non-Int. Color Monitor 1280x1024 w/Digital Control
- Mini-Tower Case w/230W Power
- 104 Key Windows 95 Keyboard
- Mouse w/Pad
- 200 Titles

P5-100MHz	**$1058**	**P5-133MHz**	**$1137**
P5-120MHz	**$1068**	**P5-166MHz**	**$1331**
Dual Pentium*	**CALL**	**P5-200MHz**	**$1581**

DELUXE MULTIMEDIA

- **256K Cache**
- **8MB RAM**
- **850MB Fast IDE Hard Drive, WD**
- VLB or PCI IDE with I/O
- VLB or PCI SVGA Card w/1MB
- **8X Speed Toshiba CD-ROM**
- 16-Bit Sound Card & Speakers
- 1.44MB 3.5" Floppy Drive
- 14" SVGA .28 Non-Int. Color Monitor
- Mini Case with 230W PS
- FCC 101 Keyboard
- Mouse with Pad
- 200 Titles

486DX4-120MHz PCI	**$760**	**P5-120MHz**	**$890**
486DX4-133MHz PCI	**$770**	**P5-133MHz**	**$952**
P5-100MHz	**$880**	**P5-166MHz**	**$1135**

VALUE SYSTEM

- **Pentium® Chip-Based Intel™ PCI Motherboard**
- **256K Pipeline Burst Cache**
- **Intel™ Triton Chipset**
- **8MB RAM**
- **1.0GB 10ms IDE Hard Drive**
- 1.44MB 3.5" Floppy Drive
- Built-in IDE/IO Controller (16550)
- PCI SVGA Card w/1MB, 64 Bit
- **14" SVGA .28 Non-Int Color Monitor**
- Mini Case with 230W PS
- FCC 101 Keyboard
- Mouse with Pad

P5-100MHz	**$770**	**P5-133MHz**	**$856**
P5-120MHz *SPECIAL*	**$780**	**P5-166MHz**	**$1039**

SOFTWARE (W/SYSTEM PURCHASE)

Windows 95 Full Copy CD Version	$85
Dos 6.x	30
Office Professional OEM CD Version	185
Windows 3.x	40
Windows for Workgroups	48
Windows NT 3.51 Server CD	488
Windows NT 3.51 Workstation CD	150

MOTHERBOARD W/O CPU

Intel™ Venus Pentium® Motherboard w/256K	$273
Intel™ Tucson Pentium® Motherboard Triton II	$195
486 VLB/PCI/ISA, 256K, 30 or 72 Pin, 16550 w/IDE/IO	80
P5-75/90/100/120/133/166/200 w/IDE &I /O (16550) Triton III Chip w/256K Pipeline	99
IBM MB & CPU	
6X86 150+ w/Math & 256K Pipeline Cache	250
6X86 166+ w/Math	352

MEMORY/CACHE

1x3-70ns/1x9 70ns	$9
4x9-70ns, 3 chips	35
1x32 70ns, 60-pin, 4MB MT	33
1x32 60ns, 72-pin, 4MB/EDO MT	33
2x32 60ns, 72-pin, 8MB/EDO	55
4x32 70ns, 60 pin, 16MB	114
4x32 60ns, 72-pin, 16MB EDO	114
Simm Converter	15
256K Pipeline Burst	19
512K Pipeline Burst	45

CPU'S

AMD	
AMD 486DX4-100	$30
AMD 486DX4-133 (New)	45
Intel™ (with M/B Purchase)	
Intel™ P5-100MHz	115
Intel™ P5-120MHz	120
Intel™ P5-133MHz	199
Intel™ P5-150MHz	CALL
Intel™ P5-166MHz	CALL
Intel™ P5-200MHz	CALL
IBM (Cyrix)	
IBM 6X86 150+MHz	125
IBM 6X86 166+MHz	214

CASE & POWER SUPPLY

ATX Case w/250W PS Dig.	$95
Mini Tower Case w/250W PS Dig.	30
Slim Case w/250W PS Dig.	55
Mid Tower Case w/250W PS Dig	42
Full Tower Case w/250W Dig.	55
250W Power	17

FLOPPY DRIVE

1.44 MB/1.2MB Mitsumi	$23/36

HARD DRIVES

1.0GB IDE	$160
1.2GB	190
1.6GB IDE 9ms (WD)	218
2.1GB IDE	240
2.0GB SCSI 7.5ms Seagate	550
4.0GB W-SCSI	850

KEYBOARDS

Keytronics 104-Enhanced Win 95	25
MS Natural Keyboard	65
Mitsumi 104 Windows 95 Keyboard	15

TAPE BACKUPS

Conner	
850MB Int	$135
Colorado	
DJ-25 800MB Internal	135

VGA CARDS

Cirrus Logic PCI w/5446 1MB 64 Bit/MPEG	$40
Diamond	
Stealth 64 PCI, 1MB/2001	57/64
Stealth 64 PCI, 2MB DRAM/2001	68/80
Stealth 64 PCI 2MB VRAM	147
Stealth 64 PCI 4MB VRAM	235
Stealth 3D 2MB DRAM	95
Matrox	
Millennium PCI 2MB (WRAM) CD Version	218
Millennium PCI 4MB (WRAM) CD Version	368

SPEAKERS

Deluxe Speakers	$5
60 Watt Stereo Speakers	13
180 Watt Stereo Speakers	34

CD-ROM/SOUND CARD

Sound Blaster Pro 16 PNP/32Bit	$67/114
16-Bit Sound, Win 95,	37
Toshiba 8X CD 145ms	99

UPGRADING CHARGES

Labor charges are the following:

CPU & Memory Upgrade	FREE
System Diagnostic Checkup	$10
Multimedia Kit Installation	20
Installation for HDD	10
Video Card + Driver Setup	10
Install Motherboard	20
Install Floppy Drive	10
Install New & Power Supply	10
Install Tape Drive	10
Install Fax/Modem	10
Install Software/Setup	25
System Troubleshooting	30
Windows 95 Install	50

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HP Toner Cartridge 92298A	$70
HP 682C Printer	285
HP 820C Printer	360
HP 855Cse Printer	480
HP 5L Xtra Printer	440
HP 5 LaserJet Printer	1150
HP Scanner 4C	820
Jaz 1GB Drive Int/Ext SCSI	375/475

MONITORS

14" Super VGA 1024x768 .28, MGC	$212
15" SVGA/Dig 1280x1024 .28, MGC	299
MAG	
1595 15" 1280x1024 .28	334
1795 17" 1280x1024 .26	578
DX15T 15" .25 Triton, Win 95	365
DX17T 17" .25 Triton, Win 95	665
MXP17F 17" 1600x1280 .26	798
MX21F 21" 1600x1280 .28	1416
NEC	
C500/XV 15+/XE 15	369/458/534
Multisync XV 17+/XE 17	750/954
Multisync XE 21/XP 21	1595/1855
SONY	
15SXI 15" .25	**335**
15SFII 15" 1280x1024 .25	430
17SFII 17" 1280x1024 .25	**705**
20SFII 20" 1600x1200 .30	1545
VIEWSONIC	
15G 15" 1280x1024 .28, 60Hz	350
15GS 15" 1280x1024 .27	360
15GA 15" 1280x1024 .27 w/Speakers	418
17EA 17" 1280x1024 .28	**575**
17GS 17" 1280x1024 .28 Green	**550**
GT770 17" 1280x1024 .25	758
PT770 17" 1600x1280 .25	800
17PS 17" 1600x1280 .25 Green	677
20G 20" 1600x1280 .28	1128
21PS 21" 1600x1280 .25	1518
GT800 20" 1600x1280 .30	1591
PT810 21" 1600x1280 .30	1550

Monitor viewable size may be smaller advertised size.

FAX MODEM

33.6 Fax Modem w/Voice Supra	$99
US Robotics	
Sportster 33.6 Fax Modem w/V.34 Int/Ext	$130/145

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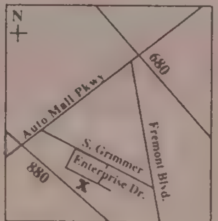

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- Trident 9440 PCI 1MB Windows Accelerator
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133MHz	$1083
166MHz	$1274
200MHz	$1492

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Thank you for lending us the Pentium 133mhz systems for the CGD Developer Conference) and WINHec (Windows hardware engineerin shows. The systems were great and were very reliable. I also appr Pentium P166mhz systems that you were able to put together within

Once again, I like to thank you, and your staff for your invaluable co couldn't have done it without you.

Huy Nguyen
Product Marketing Engineer

Ken Wu
UMiracle Microsystems
44063 Fremont Blvd.
Fremont, CA 94538

UMiracle is the system provider we choose when we are looking for desktop personal com our company. As a software developer, we are continually seeking the latest technology as enhance our computing environment. We have purchased most of our new desktop PCs UMiracle over the past few years, and these systems have been very reliable and give us go for our spending dollar. We have also utilized UMiracle's technical engineering staff in th upgrading of our systems, which is very good in suggesting a variety of choices in the upg process. We choose UMiracle for its helpful and responsive sales team, knowledgeable tec staff, and overall competitive pricing

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- Toshiba MX-5602 EightSpeed IDE 1200KB/S CD-ROM
- Sound Blaster 16 PnP Stereo Sound Card
- Diamond Stealth64 Video DRAM 2MB 2000 Series
- 15" Mag Innovision DX95 Series 1595 1280x1024NI Monitor
- Premium Digital Medium Tower 230W PS
- KeyTronic 104 Key Win95 PS/2 Keyboard
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166MHz	$1837
200MHz	$2063
Dual 166MHz	$2255
Dual 200MHz	$2706

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- 1.44MB Floppy Drive
- 1.6GB Western Digital WDAC31600 Mode-4 E-IDE HD
- Toshiba MX-5602 EightSpeed IDE 1200KB/S CD-ROM
- Diamond Stealth64 Video DRAM 2MB 2000 Series
- 15" Mag Innovision DX95 Series 1595 1280x1024NI Monitor
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UMiracle is a computer product vendor that stands out, and fulfills our co in a responsive manner. When it comes to technical difficulties, UMiracle their products and provides efficient and prompt support.

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P5-133	$2144
P5-166	$2342
P5-200	$2569
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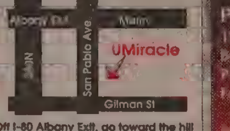

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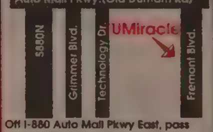

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- 1.44MB Floppy Drive
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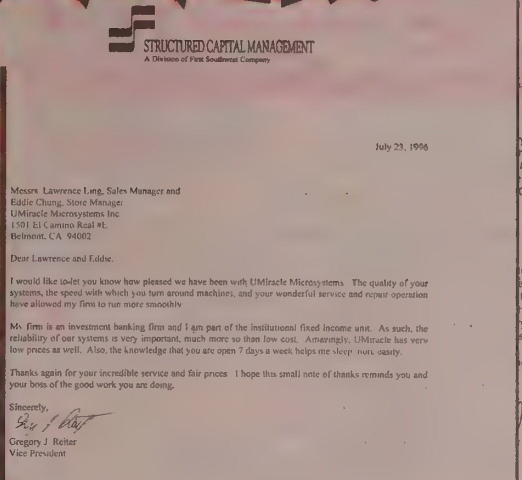

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July 23, 1996

Messrs. Lawrence Ling, Sales Manager and
Eddie Chung, Store Manager
UMiracle Microsystems Inc
1501 El Camino Real #E
Belmont, CA 94002

Dear Lawrence and Eddie,

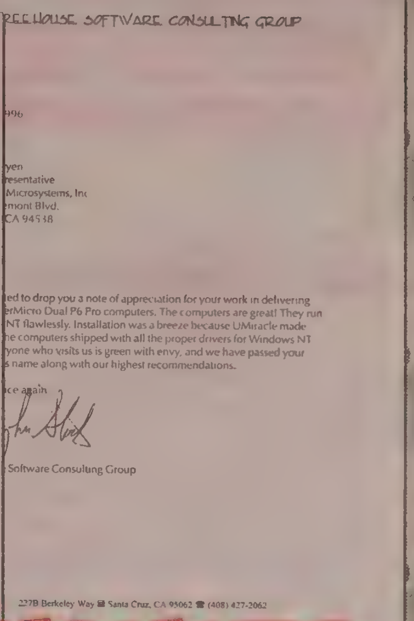
I would like to let you know how pleased we have been with UMiracle Microsystems. The quality of your systems, the speed with which you turn around machines, and your wonderful service and repair operation have allowed my firm to run more smoothly.

My firm is an investment banking firm and I am part of the institutional fixed income unit. As such, the reliability of our systems is very important, much more so than low cost. Amazingly, UMiracle has very low prices as well. Also, the knowledge that you are open 7 days a week helps me sleep more easily.

Thanks again for your incredible service and fair prices. I hope this small note of thanks reminds you and your boss of the good work you are doing.

Sincerely,

Gregory J. Reiter
Vice President



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erMicro Dual P6 Pro computers. The computers are great! They run
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he computers shipped with all the proper drivers for Windows NT
yone who visits us is green with envy, and we have passed your
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- 8/16/32/64MB Synchronous Dynamic RAM (SDRAM) 168Pin Simm ... $Call

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- Mylex DAC960SI SCSI-to-SCSI RAID Controller
  DAC960PD Hi-Performance PCI RAID Controller
  DAC960PL PCI RAID Controller
- AMI Complete MegaRAID Solution including:
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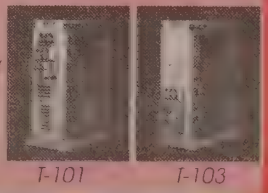
- HP DAT C1536 DDS DAT Tape Drive w/DCLZ Hardware Compression (4GB on 90m Tape with compression) $709
- HP DAT C1533A DDS-2 DAT Tape Drive w/DCLZ Hardware Compression (8GB on DDS-2 format with compression) $935
- HP DAT C1553A DDS-2 Autoloader w/DCLZ Hardware Compression (48GB on DDS-2 format with compression) $2156

■ **High End Video Card - 3D Rendering/Graphic Animation/OpenGL**
- Fujitsu Sapphire 3D Designer: 2MB Display VRAM/4MB Z-Buffer DRAM $955
- Fujitsu Sapphire 2SX: 4MB Display VRAM/4MB Z-Buffer DRAM $1555
- Symmetric GLyder 16: 8MB Display VRAM/8MB Z-Buffer DRAM $2655
- Dynamic Pictures V192 Graphics Acceleration Module 16MB Display VRAM/8MB Z-Buffer DRAM $3955
- Diamond FireGL: 8MB Display VRAM/8MB Z-Buffer DRAM $1955

■ **Server Chassis (T-101)/Disk Array Chassis (T-103) w/Dual Redundancy & Hot Swappable Power Supplies** .... $895/$895
- T-101: 12 DriveBays/Upto 2 PowerSupply 2x300W
  2x4.6" Smart Fans w/ Efficient Air Flow
  Full Size AT Motherboard FormFactor
- T-103: 16 DriveBays/Upto 2 PowerSupply 2x300W
  2x4.6" Smart Fans w/ Efficient Air Flow
  Perfect RAID Disk-Array Sub-Chassis



■ **CD-ROM Tower Subsystem Chassis**............$Call
- 7 Plextor 8xi TXL-PX83CS w/250W PS

* Compatibility with the latest NT 4.0 may not be guaranteed as most manufacturers are still working on the newest drivers for NT 4.0

Compatibility Guaranteed

Tell us your preferred [illegible]

Windows NT®

UMiracle
UMiracle Microsystems

Free Local Area Delivery for System Purchase
1 Year Parts and Life Time System Labor Warranty
Expertise Technical Support On Duty Daily
While-You-Wait Immediate Replacement/Repair Service
30 Day Compatibility Guarantee on Complete Systems

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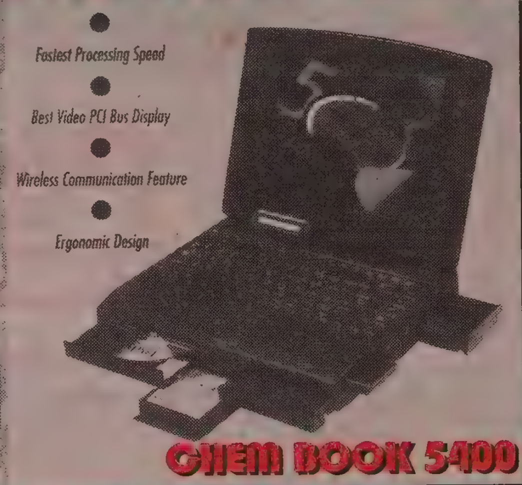
MULTIMEDIA PENTIUM NOTEBOOKS

CHEMBOOK 5400 ■ Pentium CPU ■ DualScan 11.3"/Active Screen 10.4"/12.1" ■ 16MB ■ 256K L2 Cache ■ 1.44FD ■ JoyStick ■ 6xSpeed Teac CDROM ■ 2MB Video RAM ■ TouchPad ■ 16Bit Stereo Sound ■ 1S/1P ports ■ InfraRed port ...

(810MB/1.3GB/2.0GB HD)	Dual Scan 11.3"	Active Matrix 10.4"
■ P5-100Mhz	$2068/$2203/$2376	$2308/$2443/$2616
■ P5-133Mhz	$2137/$2272/$2445	$2377/$2512/$2685
■ P5-166Mhz	$2331/$2466/$2639	$2571/$2706/$2879

** Upgrade from Active Matrix 10.4" to 12.1" add $350



CHEM BOOK 5400

CHEM 5400 NoteBook Options

8MB DIMM Memory	$95
16MBDIMM Memory	$175
32MB DIMM Memory	$345
810MB 2.5" IDE HD	$285
1.3GB 2.5" IDE HD	$430
2.0GB 2.5" IDE HD	$615
PCMCIA 14.4 Fax/Data	$85
PCMCIA 28.8 Fax/Data	$165
PCMCIA Ethernet Comb	$115
NiMH Internal Battery	$80
External Battery 58W	$175
Auto Adaptor 12V	$75
AC Adaptor/Charger	$55
MPEG Card Module	$275
Mini Docking 5400	$185

CHEM 5400 SPECIFICATIONS

CPU
- Intel Pentium 75/90/100/120/133/150/166 CPU

BIOS
- 256K Flash ROM BIOS

Memory
- 64bit data bus system memory w/2 DIMM memory sockets
- Support 1 bank operation & write-back L1-L2 256K Cache
- Available in 8/16/32/MB

Data Storage
- Built-in 1 2.5" harddrive, 1removeable 3.5" 1.44MB FDD,
- Built-in 5.25" Six speed Teac CDROM

Display
- 32Bit PCI VGA w/ 2MB VRAM onbrd
- LCD Panel: 640x480x64K or 800x600x256 colors up to SVGA Mode, TFT up to 16.7M True Color
- Support External CRT Resolution up to 1280x1024x256 color
- Support LCD/external CRT simultaneous display
- 11.3" VGA DSTN DualScan color LCD
- 10.4" VGA TFT ActiveMatrix color LCD (Optional 12.3")

Audio System
- Built-in speakers, microphone, 16bit Stereo Sound, FM Music Synthesizer, Line-in/out and external microphone jacks

PCMCIA
Built-in 2 PCMCIA type-II slots or 1 type-III slot (type IV)

I/O Interfaces
- Built-in Joystick, Speaker, Microphone
- 1 x9 pin serial port(16550 UART), 1x25 pin enhanced LPT port
- 1 x15 pin external monitor port
- 1 x PS/2 keyboard + mouse port Adaptor
- 1 x100 pin docking station interface

Wireless Link
- Built-In IrDA compatible HP infra-red transmitt module

Keyboard
- 86 keyboard w/ support for all keys of an AT-enhanced

Pointing Device
- Built-in PS/2 capacitive touch-sensitive trackpad

Power System
- CPU Stop Clock, Suspend to HDD/DRAM
- Global Standby Mode, Battery Low Spspend
- Battery Resource View, Optional External Battery 58W
- Auto-sensing 110V-240V AC adaptor

Dimension
- 11.8"(W) x 8.9"(D) x 2.1"(H)

Weight
- 7.7Lbs (with battery)

Optional devices:
- Video + MPEG Module
- Mini Docking Station
- Car adaptor

Large 12.1" Screen Size | Built-in Game Joystick | Built-in 6x CD ROM | Built-in Touch Pad

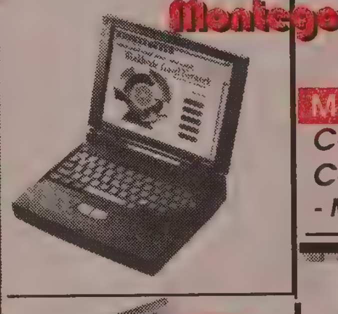
FUJITSU Today's business demands solutions on command, Fujitsu PC Corporation delivers. The Milan packs performance as one of the lightest heavy hitters in its class. The Monte Carlo offers exhilaratingly powerful multimedia for truly mobile presentations. And gracing the scales at a feather-light 4.9 pounds. The The Montego is the ultimate traveling companion.

Montego

- ■ 4.9lb weight
- ■ EDO Memory
- ■ Built-In 16-bit SoundBlaster compatible audio
- ■ 100MHz Pentium processor
- ■ Built-in 28.8k Fax/Modem

Processor	Screen	EDO RAM/HD	Price
Pentium 100	10.4" Active	8MB/1GB	$2949

Montego



Milan

- ■ Up to 133MHz Pentium processors
- ■ Up to 11.3" Super VGA displays
- ■ Built-in 16-bit SoundBlaster compatible audio
- ■ Only 1.7" thick and 5.9lbs
- ■ MS Windows 95 bundled and installed

Processor	Screen	EDO RAM/HD	Price
Pentium 100	10.4" DualScan	8MB/810MB	$1949
Pentium 100	10.4" Active	8MB/810MB	$2649
Pentium 120	11.3" Active	8MB/1.2GB	$3549
Pentium 133	11.3" Active	16MB/1.2GB	$4249

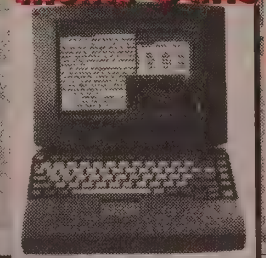
Milan

Monte Carlo

- ■ Up to 133MHz Pentium processors
- ■ Built-in 6X CD-ROM drive
- ■ Up to 12.1" Active Super VGA displays
- ■ 2MB video memory
- ■ MS Windows 95 bundled and installed

Processor	Screen	EDO RAM/HD	Price
Pentium 100	11.3" Active	8MB/810MB	$2949
Pentium 120	11.3" Active	16MB/1GB	$4149
Pentium 133	12.1" Active	16MB/1GB	$4949

Monte Carlo



HITACHIPC

mobilized computing

C

Hitachi C-Series Notebook

The Hitachi C Series is Hitachi's lightest, thinnest full featured notebook designed for the ultimate in communcations. At 5.3 pounds, the C Series notebooks feature an integrated fax/modem, Intel Pentium processor, plus a five year warranty direct from Hitachi.

Model	Processor	Screen	EDO RAM/HD	Price
C-100T	Pentium 100	10.4" Active	8MB/720MB	$3548
C-120T	Pentium 120	11.8" Active	8MB/1.0GB	$4498

- MS Windows 95 + various software bundled and installed

M

Hitachi M-Series Notebook

The Hitachi M Series notebooks are networking-ready with enhanced multimmedia capability. They provide internal ethernet and fax/modem connections along with an internal 4X or 6X CD-ROM and stereo sound. A 5-year warranty is standard from Hitachi.

Model	Processor	Screen	EDO RAM/HD/CD	Price
M-100T	Pentium 100	10.4" Active	8MB/720MB/4X	$3938
M-120T	Pentium 120	11.8" Active	16MB/1.0GB/4X	$5218
M-133T	Pentium 133	11.8" Active	16MB/1.0GB/6X	$5418

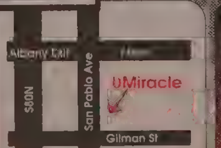
- MS Windows 95 + various software bundled and installed

uMiracle

UMiracle Microsystems
44063 Fremont Blvd Fremont CA 94538
Phone 510-226-3666 Fax:510-226-6758
1035 San Pablo Ave#1. Albany CA 94706
Phone 510-526-2626 Fax:510-526-0273
1501#E El Camino Rl. Belmont CA 94002
Phone 415-592-3333 Fax 415-592-2919

DISCOVER
ATM
VISA
Mast

Albany Store
Ph:510-526-2626
1035 San Pablo Ave #1
Albany CA 94706



Off I-80 Albany Exit, go toward the hill and turn right on San Pablo Avenue. We are facing U.C. Village. Or off I-80 Gilman St, go toward the hill and make a left turn on San Pablo Ave.

Belmont Store
Ph:415-592-3333
1501 El Camino Real #E
Belmont CA 94002
Ph 415-592-3333
Fax 415-592-2919

N101S
Industrial Rd.
Holly
Old County Rd
Ralston
Harbor
UMiracle
El Camino Real

From north or south, Off I-101 Ralston Ave, go towards west, left on El Camino Real and make a U-turn ASAP. We are on your right.

Fremont Main
Ph:510-226-3666
44063 Fremont Blvd
Fremont CA 94538
Ph 510-226-3666
Fax 510-226-6758

Auto Mall Pkwy (Old Durham R
S880N
Grimmer Blvd.
Technology Dr.
UMiracle

Off I-880 Auto Mall Pkwy East, pa Technology Drive and make a rig on Fremont Blvd, (or off 680 Durha go west, pass Osgood Rd, then m a left on Fremont Blvd.) first drive on your right.

REAL STUFF, REAL QUALITY, REAL PRICES

Motherboard without CPU (Call for CPU Prices)

486 ISA PCI 256K w/ E-IDE, FD, onbrd HiSpd I/O, 3 PCI+ 4 ISA slots, upto 256MB, suppt 72Pin SIMM, AMI BIOS, PnP, 3.3V CPU Support	$90
QDI Pentium® 75-200Mhz/Cyrix® 686-130+/150+/166+based motherboard - PCI Pipelined Sync 256K cache w/430VX chpst, Socket 7 & VRM, 4 PCI+3 ISA slots, support Fast Page or EDO 72Pin SIMM upto 128MB, built-in Bus-mastering PCI-IDE interfaces, 2-16550 UARTs, ECP/EPP,support 4 IDE HDs, FD, Flash Award ROM w/NCR SCSI suppt, PnP	$120
ASUS P/I-P55TVP4 Pentium® processor-based board - Intel 430VX PCISet, Concurrent PCI bus, Pipelined Burst 256K (upto 512K) cache onbrd, 75-200Mhz CPU speed, 4 PCI+3 ISA+1 ASUS MediaBus slots, 32bit-FP/EDO + 36bit-Parity/ECC 72Pin+168Pin SIMM support upto 128MB, built-in Bus-Master PCI-IDE interfaces, FD, 2-16550 UARTs, ECP/EPP,support 4 IDE HDs, PnP,Flash Award BIOS w/NCR SCSI Suppt, Dallas Battery, PnP,COAST Socket, Baby AT form factor	$160
ASUS P/I-XP55TVP4 same as above except in ATX form factor w/PS/2 mouse+Keyboard connectors	$1[illegible]
Intel Marl Advanced/ML Pentium® processor-based ATX Board - 256KB pipelined burst cache onbrd, Intel 430HX PCISet, built-in PCI-IDE interfaces, FD, 2 16550 UARTs, ECP/EPP,PS/2 mouse+Keybrd connectors, support 4 IDE HDs, Socket 7, 4 PCI+3 ISA slots, 32bit-FP/EDO + 36bit-Parity/ECC 72Pin SIMM support upto 128MB, 75Mhz and up CPU speed support, Concurrent PCI 2.1 compliant, PnP,ATX form factor	$150
Intel Made Tucson TC430HX Pentium® processor-based Board - Intel 430HX PCISet, Pipelined Burst 256K Cache onbrd, 75Mhz & up CPU support, 4 PCI+3 ISA slots, FP or EDO 72Pin SIMM support upto 128MB, Socket 7, built-in PCI-IDE interfaces, FD, 2-16550 UARTs, ECP/EPP,4 IDE HDs support, PnP,Flash AMI ROM, APM Power Saving, Built-in Yamaha OPL3 FM Synthesizer stereo sound w/line-in/out, Joystick, WaveTable connector, ATX type	$235
Intel Venus Performance/VS Pentium® Pro processor based motherboard - 256K/512K cache on CPU, Intel 440FX chipset, 150/180/200Mhz and future CPU support, 3 ISA+4 PCI slots, onbrd PCI Bus-Master IDE Interfaces, HiSpd I/O, FD, PS/2 mouse + kybrd connectors, ZIF Socket 8, Flash AMI PnP BIOS, FP/ECC 72Pin SIMM support upto 512MB, ATX type	$280
Intel Made Providence PR440FX Dual Pentium® Pro processor-based board - Intel 440FX PCISet, support Dual Pentium Pro 200Mhz CPUs, 64Bit-EDO/72Bit-ECC 168Pin DIMM upto 512MB, Integrated LAN Controller Intel 82557 (=EtherExpress® Pro/100B), Integrated Ultra/Wide SCSI Adaptec® 7880 w/ onbrd+External mini-68Pin 16bit Wide Connectors, Integrated Audio - Crystal+Yamaha OPL3 FM Synthesizer 16bit SteroSound, 4 PCI+1 ISA slots onbrd PCI Bus Master IDE interfaces HiSpd I/O, FD, Dual ZIF Socket 8 Flash AMI PnP BIOS	$Call
Quick P55TV PCI Pentium® processor-based board w/ Built-in Adaptec® PCI SCSI chipset 7860 (AHA-2940U Ultra SCSI) support MMX, Cyrix 686 CPU, 50Pin Fast SCSI-2 & Ultra SCSI (20MB/s Burst), Pipelined Burst 512K Cache onbrd, Intel 430VX chipset, ZIP Socket 7, 75-200Mhz, 3 PCI+5 ISA slots, FP or EDO 72Pin SIMM & 168PIN DIMM (Synchronous DRAM) support upto 512MB, built-in PCI-IDE interfaces, FD, 2-16550 UARTs, ECP/EPP,support 4 IDE HDs, PnP,50pin SCSI + FD/HD/IO cables, Musical alarm CPU fan, PS/2 mouse port & EZ-SCSI V4.0L + complete Adaptec® software driver & manual included.	$255
Quick P55TU PCI Pentium® processor-based board w/ Built-in Adaptec® PCI SCSI chipset 7880 (AHA-2940UW Ultra Wide SCSI) support MMX, 50Pin Fast SCSI-2 & 68Pin Ultra Wide SCSI (40MB/s Burst) with optional RAID support, Pipelined Burst 512K Cache onbrd, Intel 430HX chipset, ZIP Socket 7, 75-200Mhz, 3 PCI+5 ISA slots, FP or EDO 72Pin SIMM & support upto 256MB, built-in PCI-IDE interfaces, FD, 2-16550 UARTs, ECP/EPP,support 4 IDE HDs, PnP,50pin SCSI + 68pin Wide SCSI + FD/HD/IO cables, Musical alarm CPU fan, PS/2 mouse port & EZ-SCSI V4.0L + complete Adaptec® software driver & manual included	$360
TYAN TomCat II S1562D Dual Pentium® Processor based ISA-PCI motherboard - Intel 430HX Chipset, support Dual Pentium 75-200Mhz Pentium/Cyrix CPUs, 5 ISA+4 PCI slots, onbrd PCI Bus Master IDE Interfaces, HiSpd I/O, FD, Dual ZIF Socket, Flash Award PnP BIOS, support FP/ECC 72Pin SIMM upto 512MB, Pipelined Burst 256K Cache on COAST	$215
TYAN Titan Pro AT S1662 Dual Pentium® Pro based 150-200MHz ISA-PCI motherboard - Dual CPU cooling fans, Intel Natoma 440FX Chipset, support Dual 150/166/180/200Mhz CPUs, 3 ISA+5 PCI slots, onbrd PCI Bus Master IDE interfaces, HiSpd I/O, FD, Dual ZIF Socket 8, 2 VRM modules for future CPU (low voltage) support, Flash Award PnP BIOS, support FP/ECC 72Pin SIMM 4 way interleaved upto1GB	$515
TYAN Titan Pro ATX S1668 Dual Pentium Pro 150-200MHz ISA-PCI motherbrd same as Titan Pro AT S1662 above except in ATX form factor	$545
Micronics M6Me - Dual Processor Pentium Pro based EISA-PCI motherboard - 150-200MHz w/ voltage regulator module, Intel's 440FX PCIset, built-in Ultra-Wide SCSI (40MB/sec) & 64Bit ISA Video onboard, onbrd PCI Bus Master IDE interfaces, HiSpd I/O, FD, Dual ZIF Socket 3, 3 PCI+6 32-bit EISA slots, FastPage/EDO/ECC memory support, AT form factor	$755
AMI (American Megatrends, Inc) Goliath Quad Pentium® Pro Processor EISA/PCI motherboard - U.S. designed and made 180/200MHz (or higher) 1/2/4 processors supported, easy upgrade thru CPU based board approach, 1GB memory max onboard with 72 pin slots, 4 way interleave structure for max performance ECC supported, 168Pin DIMM supported, Intel 82450GX chipset, AMI Green Flash BIOS, 6 PCI + 4 EISA slots, integrated I/O w/ 1P/2S/FD/2 PCI IDEs/PS2 mouse, AT form factor	
Above w/ two 200MHz Pentium Pro 256K CPUs	$4605
Above w/ four 200MHz Pentium Pro 256K CPUs & 2nd CPU baseboard	$7405

CPU & Memory (Prices Subject to Change without notice)

Intel Pentium® Pro processor 256K/512K 200Mhz	$Call
Pentium® P5-100/120/133/150/166/200MHz CPU	$Call
AMD® 486-100DX4/120DX4/5x86-133DX4	$Call
Cyrix® 5x86-100/120DX P5 OverDrive for 486 motherbrd	$Call
Cyrix® 6x86-120+/150+/166+ Pentium® class CPU	$Call
256/512K Synchronous Pipelined Cache COAST module	$20/$35
1MB/4MB 30Pin SIMM RAM	[illegible]
72Pin SIMM - 32/36Bit-FP/EDO/Parity	[illegible]
16MB/32MB 168Pin SDRAM DIMM (Synchronous DRAM)	[illegible]
SIMM Converter - 4 pieces 30Pin to 1 piece 72Pin	$Call

UMiracle Microsystems

I/O Card/Controller Card

VLB Enhanced 4-IDE/FD 2S/1P/1G Controller Supporting 4 Mode 3 & 4 E-IDE devices	$25
Adaptec 1522 SCSI-2 Controller	$75
Adaptec 1542CP PnP Bus-mastering SCSI-2 Controller	$170
Adaptec 2940U Fast PCI Ultra SCSI-2 Controller	$168
Adaptec 2940UW PCI Ultra WIDE SCSI-2, 40MB/s, 15 devices support	$210
External SCSI-2 50Pin Mini-68Pin Adapter for any onboard internal 50pin ribbon cable SCSI interface	$17
External Wide SCSI Mini-68Pin Adapter with 3-68pin-connector internal ribbon cable for any onboard internal 68pin Wide SCSI interface	$55
Fast Wide SCSI-2 Internal Ribbon Cable, 68Pin, 2 / 3 connectors	$25/35
External SCSI Cables Centronic/Mini 50/68Pin	$Call
External SCSI Terminator SCSI-2/Mini 50/Mini 68Pin	$Call
Universal Serial Bus Connector (Call for availability/compatibility)	$Call

Network Card

Ethernet NE2000 ISA PnP/Softset 16Bit Combo	[illegible]
Intel EtherExpress Pro 10/100 PCI ENET 32Bit 10-BT (PILA8465B)	[illegible]
SMC Etherpower ENET PCI 10-BT (8432T)	$110
SMC Etherpower ENET PCI 10-BT + Coax Combo (8432BT)	$140
SMC Etherpower ENET PCI 10/100-BT+DB-9 (9332DST)	[illegible]
3COM Etherlink III 3C509B Combo	$90
3COM Etherlink XL 3C900 Parallel-Tasking PCI 10BT/Combo	$105/$125
3COM Fast Etherlink XL 3C905-TX Parallel-Tasking 100BT PCI	$135

Video Card

Trident 9440 Windows Accelerator PCI 1MB/2MB	$30/40
Creative Labs Graphics Blaster MA202/MA302	$97/$137
Diamond Stealth 3D 2000XL PCI 2MB EDO-DRAM	$115
Diamond Stealth 3D 3000XL PCI 2MB/4MB VRAM	$Call
Diamond Stealth64 Video DRAM 2000 Series PCI 64Bit S3-765 Graphic Engine 2MB EDO DRAM	$75
Motion Video Player 1100 Series MPEG Module for Stealth 2000	$115
Diamond DTV 1100 TV Tuner for Stealth 2000	$105
Diamond Stealth64 Video VRAM 3000 Series PCI 64Bit Graphic Engine S3-968 2MB/4MB VRAM Version	$175/280
2MB VRAM upgrade board for Stealth 3000	$105
Motion Video Player 2000 Series MPEG Module for Stealth 3000 0MB	$205
Motion Video Player 2000 Series MPEG Module for Stealth 3000 2MB VRAM	$305
ATI 3D Xpression+ PC2TV PCI 2MB EDO DRAM	$Call
ATI Graphic Pro Turbo PCI 2/4MB VRAM	$205/305
Matrox MGA Millennium 2MB/4MB WRAM PCI	$185/$245
Upgrade module for Millennium 2MB/4MB/6MB	$95/$175/$245
Matrox MGA Mystique 2MB/4MB SGRAM	$180/235
Number 9 Imagine 128 Series II 4MB VRAM PCI	[illegible]

Monitor

14" ShamRock 1Kx768NIx0.28DP Digital Control Pwr-Saving Monitor	$210
15" ShamRock 1280x1KNIx0.28DP Digital Control Pwr-Saving Monitor	$290
17" ShamRock 1280x1KNIx0.28DP Digital Control Pwr-Saving Monitor	$535
MAG Technitron Series Trinitron Tube, Digital Control, 0.25DP, 1280x1KNI, 3yr Manu. Warranty 15" DX15T/DX700T	$365/$Call
MAG DX95 Series DX1595/DX1795	$320/$575
MAG Elite Series MXP17F/MXP21F	$715/$1495
IIYAMA VisionMaster-17 MF-8617E 17" .26DP, Microprocessor Contrl, PnP,DPMS, MPRII, Full On-screen program, 1600x1200@69Hz	$668
IIYAMA VisionMaster-Pro 17 MT-9017E 17" .25DP, Microprocessor Contrl, PnP,DPMS, MPRII, Full On-screen program, 1600x1200@72Hz, Trinitron Tube	$739
IIYAMA VisionMaster MF-8221E 21" .22x.16DP, Microprocessor Contrl, PnP,DPMS, MPRII, Full On-screen program, 1600x1200@76Hz	$1430
IIYAMA VisionMaster MT-9021E 21" .30x.00DP, Microprocessor Contrl, PnP,DPMS, MPRII, Full On-screen program, 1600x1200@76Hz, Trinitron Tube	$1525
Sony 15" 15SX/15" 15SF II/17" 17SF II/20" 20SFII	$385/$445/$745/$1580
Sony 20" 17" 17SE2T/20SE2T	$945/$1809
Eizo (Former Nanao) T-series:T2-17/T2-17TS/T2-20	$940/$890/$1780
Eizo (Former Nanao) F-series:F2-17/ F2-17EX/ F2-21/ FX2-21	[illegible]
Viewsonic 14ES/15ES/15G/1V45GS/17GS/ 15GA/17GA/17PS/PT770/GT800/PT810/P815/17EA/29GA/etc	$Call
Mitsubishi DiamondScan 17HX/20H	$859/$1625
Mitsubishi DiamondPro [illegible]	$1045/$1755
Hitachi, NEC, ADI, Nokia, Eizo Monitors	[illegible]

Modem

Modem Zoltrix 14.4K/33.6K Fax+Data w/ VoiceMail Int. 16550 UART	$50/$85
Cardinal 33.6K Fax Internal (MVP288I)	$125
Cardinal 33.6K Voicemail Fax Internal (MVP288IV)	[illegible]
USR Sportster 33.6K Faxmodem Internal/External	$139/160
USR Sportster 33.6K Voice Faxmodem w/Personal Voice Mail External	$185

Floppy Drive/Tape Backup

Mitsumi/Sony/NEC 1.44M 3.5"	[illegible]
Teac 1.2M 5.25"/1.44M 3.5"/Dual 1.2M+1.44M Combo	$45/27/$99
Colorado 800MB T-1000 off floppy Travan w/Win95 Sftwre, no tape	$125
Colorado Jumbo1400 1.4GB DJ50 Travan off floppy w/Win95 Sftwre, no tpe	$189
Colorado T4000S 8GB, 62MB/min, SCSI-2, Travan TR-4, Int	$359
Tape Cartridges for Tape Backup	$Call
Iomega ZIP Drive 100MB w/disk SCSI-Internal/External	$172/$191
Iomega ZIP Drive Disks single/three/ten pack	$18/$45/$130
Iomega Jaz Drive 1GB w/disk SCSI-Internal/External	$360/$475
Iomega Ditto Easy TapeBackup 800 Insider 800MB YTavan QIC	$115
Iomega Ditto Easy TapeBackup 800 Parallel External 800MB YTavan QIC	$149
Iomega Ditto TapeBackup 3200 Insider 3.2GB Tavan QIC	$206
Iomega Ditto TapeBackup 3200 Parallel External 3.2GB Tavan QIC	$275
Iomega Ditto Tape Cartridge 800-TR-1/3200-TR-3	$32/$35

Mitsumi 104 Enhanced Win95 Keyboard	$12
KeyTronic 104 Enhanced Win95 Key U.S. Made	[illegible]
Focus 2001 104 Win95 Key Enhanced Click w/Cover	[illegible]
Focus 6002 104 Win95 Key Enhanced w/ wristrest	[illegible]
Focus 7200 104 Win95 Key Enhanced w/ wristrest + Trackball	[illegible]
Focus 8000 111 Key w/Calculator	[illegible]
Natural Keyboard SK-6000 Win95 Key Enhanced	[illegible]
Natural Keyboard SK-6000 Win95 Key Enhanced w/Touch Pad	[illegible]
MicroSoft Natural Keyboard Win95 Key	[illegible]
Mitsumi MS compatible 2-Button Mouse Serial/PS2	[illegible]
MicroSoft Ergonomic Serial/PS 2 type	[illegible]
Logitech Mouseman Serial/PS 2 type/Cordless	$35/$45/$85
Logitech Trackman Vista/Marble	$49/$85
MS DOS 6.22/Windows V3.11/WFWG V3.11(w/System Purchase)	$45/45/65
MS Windows 95 Full CD-ROM OEM version	[illegible]
MS Office Pro for Windows 95 CD version	[illegible]
MS Windows NT V4.0 Workstation/Server OEM	[illegible]
Premium Case w/230W Mini/Desktop/Med	[illegible]
Premium Case w/250W Full Size Tower	$95
Server Class Super Case w/250W PS w/ detachable front panel, Dual side open door, solid construction, slide-in Drive Bay, Dual fans, lots of bays, Medium/Full Tower	$115/$150
ATX Style Medium/Full Tower Case w/ ATX type 235W P/S	$115/$14[illegible]
Deluxe External SCSI Case w/Terminator+SCSI Cable+P/S+Fan 3.5" Half Height/5.25" Half Height	$60/$[illegible]
Deluxe External SCSI Case w/68Pin Wide/Ultra Wide SCSI Connector + P/S + Fan 3.5" Half Height with 68Pin External Cable and Terminator	$165
Power Supply PS-2 Type 230W/250W/300W	[illegible]
486/P5/P6 CPU Cooling Fan w/heat sink	[illegible]
Chassis Second Cooling Fan 3" or 3.5"	[illegible]
Printer Cable 6"/10"/15"/25"	[illegible]
PS/2 mouse port connector for motherboard PS/2 mouse port	$15

CD-ROM Drive

Toshiba XM-5602 8X Speed Internal ATAPI IDE CD ROM	[illegible]
Teac 58E 8X Speed Internal ATAPI IDE CD-ROM	$99
Mitsumi FX810 8X Speed Internal ATAPI IDE CD-ROM	$99
Mitsumi FX12X 12X Speed Internal ATAPI IDE CD-ROM	$199
Teac 56S 6Xi SixSpeed SCSI 1200KB/Sec, Internal	$153
NEC CDR-1410 8Xi EightSpeed SCSI 1200KB/Sec, Internal	$210
Plextor 6-Plex 6XSpeed PX63CS internal/65CS external, 900Kb/sec, Fast SCSI, 115ms seek, 256K Buffer, SCAM, w/Caddy, 2-yr warranty	$249/$339
Plextor 8-Plex 8XSpeed PX83CS internal/85CS external, 1200Kb/sec, Fast SCSI, 95ms seek, 256K Buffer, SCAM, w/Caddy, 2-yr warranty	$288/378
Sony Recordable SCSI-2 CD-ROM Writer 1MB Cache, 2X record and up to 4X read, 5.25" 1/2 height, Bare CD Recorder	$595
Philips Recordable SCSI-2 CD-ROM Writer 1MB Cache, 2X record and up to 4X read, 5.25" 1/2 height, Bare CD Recorder	[illegible]

Sound Card/Speaker/MultiMedia Packages

Yamaha, Altec, Lansing Speakers	[illegible]
60W/80W/120W Hi-Fi Ampilfied Stereo Speakers	[illegible]
Sound Blaster 16 Stereo PnP w/IDE Interface OEM	[illegible]
Sound Blaster 32 PnP w/IDE interface Retail	[illegible]
Sound Blaster AWE32 PnP w/ IDE interface Retail	[illegible]
MS CD titles including Encarta 96, Works, Money, Dangerous Creatures, Oceans, Sport Collection, 55+ Title CD Samplers	$65
Audio Cable - CD-ROM to Sound Card	[illegible]

Seagate	
540MB IDE ST3541A	$135
Western Digital - Caviar	
850MB IDE WDAC2850 - Enhanced IDE Mode-3 64KB 4500RPM	$14[illegible]
1.2GB IDE WDAC31200 - Enhanced IDE Mode-4 128KB 5200RPM	[illegible]
1.6GB IDE WDAC31600 - Enhanced IDE Mode-4 128KB 5200RPM	[illegible]
2.1GB IDE WDAC32100 - Enhanced IDE Mode-4 128KB 5200RPM	[illegible]
2.5GB IDE WDAC32500 - Enhanced IDE Mode-4 128KB 5200RPM	[illegible]
3.1GB IDE WDAC33100 - Enhanced IDE Mode-4 128KB 5200RPM	[illegible]
2.1GB WD Enterprise E2170-003 Ultra SCSI 50Pin 512K 7.2kRPM	[illegible]
2.1GB WD Enterprise E2170-007 - Ultra-Wide SCSI 68Pin 512K 7.2kRPM	[illegible]
4.3GB WD Enterprise E4360-007 - Ultra-Wide SCSI 68Pin 512K 7.2kRPM	[illegible]
Hewlett Packard	
2.1GB SCSI-2, 9ms, 512K	[illegible]
IBM	
1.12GB Ultrastar XP-DPES31080 12ms, 4500RPM, 512K, SCSI 2	$269
2.25GB Ultrastar XP-DFHS32160 7.8ms, 7200RPM, 512K, SCSI-2	[illegible]
2.25GB Ultrastar XP-DFHS32160W 7.8ms, 7200RPM, 512K, W[illegible]	[illegible]
[illegible].51GB Ultrastar XP-DFHS34320 8.4ms, 7200RPM, 512K, SCSI-2	[illegible]
4.51GB Ultrastar XP-DFHS343200W 8.4ms, 7200RPM, 512K, Wide SCSI-2	[illegible]
2.16GB Ultrastar DORS32160UW 8.5ms, 5400RPM, 512K, Ultra-Wide SCSI-2	[illegible]
Quantum	
4.3GB Atlas XP34300N Fast SCSI-2, 8.5ms, 7200RPM, 2MB	$8[illegible]
4.3GB Atlas XP34300W Fast Wide SCSI-2, 8.5ms, 7200RPM, 2MB	[illegible]
Seagate	
4.3GB Barracuda ST15150N Fast SCSI-2 8.5ms 3.5" 72KRPM, 1MB	$1040
4.3GB Barracuda ST15150W Fast Wide SCSI-2 8.5ms 3.5" 72KRPM, 1MB	$1150
2.1GB Hawk2XL ST32155N Ultra SCSI 50pin 5540RPM, 256K	$505
2.1GB Hawk2XL ST32155W Ultra Wide SCSI 68pin 5540RPM, 512K	[illegible]

PC UPGRADES & SERVICE WELCOME! OUR TECHNICAL EXPERTS CAN TROUBLESHOOT YOUR PROBLEMS SUPER FAST!

Resources

Calendar Of Events

continued from page 268

October 24–25 Web Pages That Work. San Francisco. Seminars in Usable Design. Contact: (303)234-0123 or URL: *http://www2.csn.net/suds/* .

October 25 Implementing Anti-Virus Strategies For Lantastic And Peer To Peer. Hayward. Network Data Solutions. Contact: (510)780-0243.

October 26 Doing Business on the Internet. Hayward. Network Data Solutions. Contact: (510)780-0243.

October 26 Implementing Windows NT Server With Directory Security Services. Hayward. Network Data Solutions. Contact: (510)780-0243.

October 26 Microsoft Windows 95 Installation And Configuration BootCAMP. Hayward. Network Data Solutions. Contact: (510)780-0243.

October 26 Publish the Net 3: Introduction To HTML. San Francisco. Center for Electronic Art. Contact: (415)512-9300, *info@cea.edu* , or URL: *http://www.cea.edu/* .

October 26–November 2 Publish The Net 5: Creating Dynamic Pages That Interact. San Francisco. Center for Electronic Art. Contact: (415)512-9300, *info@cea.edu* , or URL: *http://www.cea.edu/* .

October 27–November 10 QuarkXpress 1. San Francisco. Center for Electronic Art. Contact: (415)512-9300, *info@cea.edu* , or URL: *http://www.cea.edu/* .

October 28 Complete Online Novell CNA3 & CNA4 Training. Berkeley. Cyber State University. Contact: (510)253-8735.

October 28 Exploring The Web With VRML (Virtual Reality Modeling Language). San Francisco. Center for Electronic Art. Contact: (415)512-9300, *info@cea.edu* , or URL: *http://www.cea.edu/* .

October 28–November 1 Oracle7 For Database Administrators. Santa Clara. Learning Tree International. Contact: 1-800-850-9197.

October 29 Intermediate Word For Windows Class. Walnut Creek. Computer Education Center. Contact: (510)937-2566.

October 29–November 1 LAN Troubleshooting. Santa Clara. Learning Tree International. Contact: 1-800-850-9197.

October 29–November 1 UNIX And Windows NT Integration. Santa Clara. Learning Tree International. Contact: 1-800-850-9197.

October 29–November 12 Electric Image 3: Special Effects. San Francisco. Center for Electronic Art. Contact: (415)512-9300, *info@cea.edu* , or URL: *http://www.cea.edu/* .

October 29–November 12 Interactive Authoring: Lingo 2. San Francisco. Center for Electronic Art. Contact: (415)512-9300, *info@cea.edu* , or URL: *http://www.cea.edu/* .

October 30–November 13 Pagemaker. San Francisco. Center for Electronic Art. Contact: (415)512-9300, *info@cea.edu* , or URL: *http://www.cea.edu/* .

October 30–November 20 Painter. San Francisco. Center for Electronic Art. Contact: (415)512-9300, *info@cea.edu* , or URL: *http://www.cea.edu/* .

October 31–November 1 Managing And Implementing Web/Internet/Intranet Technology. Burlingame. UC Berkeley Extension. Contact: (510)323-1438.

November

November 1 Implementing Anti-Virus Strategies For Windows 95 Clients. Hayward. Network Data Solutions. Contact: (510)780-0243.

November 1–November 15 QuarkXpress 2. San Francisco. Center for Electronic Art. Contact: (415)512-9300, *info@cea.edu* , or URL: *http://www.cea.edu/* .

November 2 Beyond Client/Server Technology: Intranet Applications For Small- And Mid-sized Firms On A Worldwide Basis. Hayward. Network Data Solutions. Contact: (510)780-0243.

November 2 Intro To Macintosh Class. Berkeley. Kala Institute. Contact: (510)549-2977.

November 2 Novell Netware 4.1 System Administration BootCAMP. Hayward. Network Data Solutions. Contact: (510)780-0243.

November 4–8 Object-Oriented Design Patterns And Frameworks. Burlingame. UC Berkeley Extension. Contact: (510)323-1438.

November 5 Telecommuting And Internet Access Seminar. Sacramento. Ascend Seminars. Contact: 1-800-366-4058 or URL: *http://www.ascend.com/* .

November 5–26 Photoshop 2. San Francisco. Center for Electronic Art. Contact: (415)512-9300, *info@cea.edu* , or URL: *http://www.cea.edu/* .

November 5–8 Client/Server Computing Introduction. Santa Clara. Learning Tree International. Contact: 1-800-850-9197.

November 5–8 ISDN Comprehensive Introduction. Santa Clara. Learning Tree International. Contact: 1-800-850-9197.

November 5–8 Relational Databases: Design, Tools, and Techniques. Santa Clara. Learning Tree International. Contact: 1-800-850-9197.

November 5–8 Windows Programming. Santa Clara. Learning Tree International. Contact: 1-800-850-9197.

November 5–December 17 Elements Of Multimedia Design. San Francisco. Center for Electronic Art. Contact: (415)512-9300, *info@cea.edu* , or URL: *http://www.cea.edu/* .

November 5–8 Windows Configuration. Santa Clara. Learning Tree International. Contact: 1-800-850-9197.

November 6 Internet 101: An Introduction And Overview Of The Internet For Beginners And The Curious Seminar. San Francisco. Internet Literacy Consultants. Contact: (415)469-8271 or *admin@matisse.net* .

November 7 Multimedia Pioneers Lecture Series: Alan Kay. San Francisco. SFSU Multimedia Studies Program. Contact: (415)904-7740.

November 7 Publish The Net 1: Barn-Raising, Waiting Tables, And The WWW. San Francisco. Center for Electronic Art. Contact: (415)512-9300, *info@cea.edu* , or URL: *http://www.cea.edu/* .

November 7 Telecommuting And Internet Access Seminar. San Francisco. Ascend Seminars. Contact: 1-800-366-4058 or URL: *http://www.ascend.com/* .

November 7–December 19 Managing Your Mac. San Francisco. Center for Electronic Art. Contact: (415)512-9300, *info@cea.edu* , or URL: *http://www.cea.edu/* .

November 7–December 21 Interactive Authoring: Lingo 1. San Francisco. Center for Electronic Art. Contact: (415)512-9300, *info@cea.edu* , or URL: *http://www.cea.edu/* .

November 8 Fundraising On The Internet: Using The Internet To Find New Donors And Cultivate The Ones You Have. San Francisco. Contact: (510)843-8888, *workshop@malwarwick.com* .

November 8 Implementing Anti-Virus Strategies For Windows NT Server Networks. Hayward. Network Data Solutions. Contact: (510)780-0243.

November 8–16 From Photoshop To Photo-Etching Advanced Workshop. Berkeley. Kala Institute. Contact: (510)549-2977.

November 9 Basics Of Local Area Networks. Hayward. Network Data Solutions. Contact: (510)780-0243.

November 9 Internet & World Wide Web 101. San Francisco. Center for Electronic Art.

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ICS P6-Venus

- ⇒ ***Intel Venus Pentium Pro*** PCI Motherboard
- ⇒ Natoma 440FX Chipset, ZIP Socket 8
- ⇒ Built-in PCI Bus Master IDE,16550 HiSpd I/O
- ⇒ AMI PnP Flash BIOS, w/256K built-in CPU Cache
- ⇒ ATX Form Factor Motherboard
- ⇒ **32MB (4X36)X2 ECC/EDO RAM -60ns**
- ⇒ **WD 32500H 2.5GB** 10ms Mode-4 EIDE HD
- ⇒ **ATI Mach 64/Diamond Stealth 64 w/2MB VRAM**
- ⇒ **ViewSonic17EA 17" Monitor .28 dpi 1280x1024 @60hz NI Digital Control w/Speaker**
- ⇒ TEAC 1.44 Floppy ,ATX Med Tower Case w/235 PS
- ⇒ MS Serial Mouse /Keytronic 104 Keyboard
- ⇒ **Toshiba 5602B 8X** EIDE CD-ROM
- ⇒ **Sound Blaster** 16 PnP Sound Card

Pentium ®150 chip $Call
Pentium ®180 chip $Call
Pentium ®200 chip $Call

ICS P5-Marl ATX

- ⇒ ***Intel Marl Advanced/ML*** PCI Motherboard
- ⇒ Triton II 430HX Chipset, ZIP Socket 7
- ⇒ Built-in PCI Bus Master IDE,16550 HiSpd I/O
- ⇒ AMI PnP Flash BIOS, w/256K PL
- ⇒ ATX Form Factor Motherboard
- ⇒ **32MB (4X36)X2 ECC/EDO RAM -60ns**
- ⇒ **Seagate 2.1GB** 10ms Mode-4 EIDE HD
- ⇒ **ATI Mach 64/Diamond Stealth 64 w/2MB VRAM**
- ⇒ **ViewSonic17EA 17" Monitor .28 dpi 1280x1024 @60hz NI Digital Control w/Speaker**
- ⇒ TEAC 1.44 Floppy ,ATX Med Tower Case w/235 PS
- ⇒ MS Serial Mouse /Keytronic 104 Keyboard
- ⇒ **Toshiba 5602B 8X** EIDE CD-ROM
- ⇒ **Sound Blaster** 16 PnP Sound Card

Pentium ®100 chip $2010
Pentium ®120 chip $2050
Pentium ®133 chip $2110
Pentium ®150 chip $2150
Pentium ®166 chip $2300
Pentium ®200 chip $2610

ICS P5-Atlantis

- ⇒ ***Intel Atlantis Advanced/AS*** PCI Motherboard
- ⇒ Triton II 430HX Chipset, ZIP Socket 7
- ⇒ Built-in PCI Bus Master IDE,16550 HiSpd I/O
- ⇒ AMI PnP Flash BIOS, w/256K PL
- ⇒ **16MB (2X32)X2 EDO RAM -60ns**
- ⇒ **Seagate 1.6GB** 10ms Mode-4 EIDE HD
- ⇒ **Built-in ATI Mach 64 w/2MB DRAM**
- ⇒ **ViewSonic15G 15" Monitor .28 dpi 1280x1024 @60hz NI Digital Control**
- ⇒ TEAC 1.44 Floppy ,Med Tower Case w/230W UL PS
- ⇒ MS Serial Mouse /Keytronic 104 Keyboard
- ⇒ **Toshiba 5602B 8X** EIDE CD-ROM
- ⇒ **Built-in Crystal+Yamaha** OPL3LS 16bit Sound Card, WaveTable Upgradeable

Pentium ®100 chip $1350
Pentium ®120 chip $1390
Pentium ®133 chip $1450
Pentium ®150 chip $1490
Pentium ®166 chip $1640
Pentium ®200 chip $1950

ICS P5-Endeavor

- ⇒ ***Intel Endeavor Advanced/EV*** PCI Motherboard
- ⇒ Triton II 430HX Chipset, ZIP Socket 7
- ⇒ Built-in PCI Bus Master IDE,16550 HiSpd I/O
- ⇒ AMI PnP Flash BIOS, w/256K PL
- ⇒ **16MB (2X32)X2 EDO RAM -60ns**
- ⇒ **Seagate 1.6GB** 10ms Mode-4 EIDE HD
- ⇒ **ATI Mach 64/Diamond Stealth 64 w/2MB DRAM**
- ⇒ **ViewSonic15G 15" Monitor .28 dpi 1280x1024 @60hz NI Digital Control**
- ⇒ TEAC 1.44 Floppy ,Med Tower Case w/230W UL PS
- ⇒ MS Serial Mouse /Keytronic 104 Keyboard
- ⇒ **Toshiba 5602B 8X** EIDE CD-ROM
- ⇒ **Built-in Crystal+Yamaha** OPL3LS 16bit Sound Card, WaveTable Upgradeable

Pentium ®100 chip $1390
Pentium ®120 chip $1430
Pentium ®133 chip $1490
Pentium ®150 chip $1530
Pentium ®166 chip $1680
Pentium ®200 chip $1990

ICS Server

- ⇒ ***Intel Venus Pentium Pro*** PCI Motherboard
- ⇒ Natoma 440FX Chipset, ZIP Socket 8
- ⇒ Built-in PCI Bus Master IDE,16550 HiSpd I/O
- ⇒ AMI PnP Flash BIOS, ATX Form Factor
- ⇒ **64MB (4X36)X4 ECC/EDO RAM -60ns**
- ⇒ **Seagate ST15150W 4.3GB 8ms 7200RPM F/W HD**
- ⇒ **Adaptec 2940UW Ultra Wide SCSI Adapter**
- ⇒ **ATI Mach 64/Diamond Stealth 64 w/1MB DRAM**
- ⇒ **ViewSonic14ES 14" Monitor .28 dpi 1024x768**
- ⇒ TEAC 1.44 Floppy ,ATX Med Tower Case w/235 PS
- ⇒ MS PS2 Serial Mouse /Keytronic 104 Keyboard
- ⇒ **Toshiba 5602B 8X** EIDE CD-ROM
- ⇒ **3COM 3C595-TX Fast Ethernet Card 100MBPS**
- ⇒ **Tested with Windows NT 3.5/4.0, BackOffice, BSDI, Novell 3.X/4.X, SCO, Salaris and Unixware**

Pentium ®150 chip $Call
Pentium ®180 chip $Call
Pentium ®200 chip $Call
Compatiblity Graranteed

ICS P5-60

- ⇒ ***Intel Batman*** PCI Motherboard w/60Mhz CPU
- ⇒ Naptune Chipset, ZIP Socket 4
- ⇒ Built-in PCI Bus Master IDE,16550 HiSpd I/O
- ⇒ AMI Flash BIOS, w/256K Cache
- ⇒ **8MB (1X32)X2 FPM RAM -60ns**
- ⇒ **Seagate 850MB** 12ms Mode-4 EIDE HD
- ⇒ **Trident 9440 64-bit PCI VGA w/1MB DRAM**
- ⇒ **ViewSonic14ES 14" Monitor .28 dpi 1024x768 @60hz NI Digital Control**
- ⇒ TEAC 1.44 Floppy ,Med Tower Case
- ⇒ MS Serial Mouse /Keytronic 104 Keyboard

$750.00

Hard Disk

⇒ ***Fast ATA EIDE Hard Drives***

- Western Digital - Caviar

1.2GB 21200	$205	1.6GB 31600	$225
2.1GB 32100	$285	2.5GB 32500	$335

- Seagate

850MB	$150	1.2GB	$185
1.6GB	$215	2.1GB	$265

⇒ **Fast SCSI-II Hard Drives**

- Quantum

2.15GB Atlas XP32150N SCSI-II 8.5ms,7200RPM	$455
4.30GB Atlas XP34300N SCSI-II 8.5ms,7200RPM	$855

- Seagate

2GB Barracuda ST32550N SCSI 8ms,7200RPM	$750
4GB Barracuda ST15150N SCSI 8ms,7200RPM	$1050

⇒ **Fast/Wide SCSI Hard Drives**

- Quantum

2.15GB Atlas XP32150W SCSI 8.5ms,7200RPM	$465
4.30GB Atlas XP34300W SCSI 8.5ms,7200RPM	$865

- Seagate

2GB Barracuda ST32550W SCSI 8ms,7200RPM	$795
4GB Barracuda ST15150W SCSI 8ms,7200RPM	$1150

Monitor

⇒ ***MAG***

• Technitron Series Trinitron Tube, Digital Control .25dpi DX15T/DX17T	$410/$735
• DX95 Series DX1595/DX1795	$355/$625

⇒ SONY

• 15" 1280X1024 .25dpi 15sx/15sfII	$385/$465
• 17" 1280X1024 1600X1280 .26dpi 17sfII/17SE	$765/$935

⇒ **ViewSonic**

• 14" 14ES 1024X768 .28dpi	$265
• 15" 15ES/GS/GA 1280X1024 .28dpi	$355/$385 $455
• 17" 17EA 1280X1024 .28dpi w/SPK	$635
• 17" 17GS 1280X1024 .27dpi MPRII	$635
• 17" 17GA 1280X1024 .27dpi w/SPK	$715
• 17" PT770 1600X1280 .26dpi MPRII	$795
• 20" 20G 1600X1280 .28dpi MPRII	$1185
• 21" 21PS 1600X1280 .25dpi MPRII	$1655

⇒ NEC

• 15" XV15+ 1280X1024 .28dpi	$475
• 17" XV17+ 1280X1024 .28dpi	$795
• 17" XP17 1280X1024 .28dpi MPRII	$1055

OTHER SERVICES

Consulting, Network Installation, Servicing and Maintenance UNIX (SCO, SUN, UnixWare, Linux) ,NOVELL (3.1x, 4.x), WINDOWS NT 3.x/4 System Installation, Configuration and Administration

NETWORKING

NE-2000 Compatible Ethernet Combo	$30
3COM Etherlink III ISA Combo	$125
3COM Etherlink III ISA TPO	$95
3COM Etherlink III PCI 10BT/100	$155
INTEL EtherExpress 16 Combo	$125
INTEL EtherExpress Pro 10BT	$95
INTEL EtherExpress Flash	$135
INTEL EtherExpress PCI 10BT/100	$215
ZNYX 100Mbps 4PORT 10BT PCI	$Call
ZNYX 10/100Mbps 10BT PCI	$Call

HUBS & CABLES

3COM Linkbuilder 8 Port	$195
3COM Linkbuilder 12 Port	$325
PRINTER SERVERS- HP, etc.	$Call
RJ45/BNC CONNECTORS	$1.25
MADE TO ORDER CABLES	$Call

VIDEO CARDS

ATI Graph Pro 64 2MB/4MB VRAM	$215/345
ATI Mach 64 PCI 1MB/2MB DRAM	$75/95
DIAMOND STLTH 64 Video 2/4 V	$215/345
DIAMOND STLTH 64 Video 1/2 D	$75/95
VRAM/DRAM UPGRADES	$CALL
DIAMOND EDGE 3D PCI 2MB D	$225
DIAMOND EDGE 3D PCI 2/4MB V	$325/455
MATROX MGA MILLE. 2/4MB W	$235/355
UPG. FOR MGA MILLE. 2/4/6MB W	$145/250/ 650
TRIDENT 9440i PCI/VLB 1MB	$45/65

SCSI CONTROLLER CARDS

ADAPTEC 3940W Dual Channel PCI	$495
ADAPTEC 3940 Single channelPCI	$429
ADAPTEC 2940UW Ultra/Wide PCI	$225
ADAPTEC 2940U Fast SCSI-2 PCI	$185

ISDN/ANALOG MODEMS

USR SPORTSTER 33.6bps Int/Ext	$140/160
USR SPORTSTER 33.6bps w/Voice Int.	$185
SUPRA EXPRESS 33.6 V.34 Int/Ext	$95/135
SUPRA EXPRESS 33.6 w/Voice Int	$145
FAX/MODEM 14.4 INT	$45
ISDN MODEMS:	
MOTOROLA **BitSurf Pro ISDN** w/NT1 & analog phone jack! up to 128KBPs transfer rate	$379
DATAFIRE **ISDN** Card **128KBPS w/NT1 adapter**	$410
Call for Other Brands	

KEYBOARD/MOUSE

MS Natural Win 95 Keyboard	$65
KeyTronic 104 Win 95 Keyboard	$23
MS Serial Mouse/Logitec Mouseman	$25

SOUND CARDS/CD-ROM

SOUNDBLASTER AWE32 WaveEffect	$235
SOUNDBLASTER 32 PnP w/IDE	$155
SOUNDBLASTER 16 PnP w/IDE	$75
60W Hi-Fi Ampilfied Stereo Speaker	$25
CD-ROM Drives:	
MITSUMI 4X IDE CDROM 600KB	$55
MITSUMI 6X IDE CDROM 900KB	$80
TEAC 6X SCSI CDROM	$159
TOSHIBA 4X SCSI2 CDROM 600KB	$135
TOSHIBA 8X IDE CDROM 1200KB	$105
PLEXTOR 6X SCSI2 CDROM	$265
PLEXTOR 8X SCSI2 CDROM	$345
NEC 8Xi SCSI2 CDROM 1200KB	$235
Software:	
MS DOS 6.22/Windows 3.11/WFW 3.11 (w/System Purchase)	$35/45/65
MS Windows 95 Full Ver CD OEM	$92
MS Office 95 CD OEM	$205

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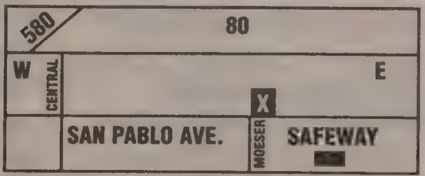

1-800-528-1173

Calendar Of Events *continued...*

Contact: (415)512-9300, *info@cea.edu* , or URL: *http://www.cea.edu/* .

November 9 Microsoft NT Server Installation And Configuration BootCAMP. Hayward. Network Data Solutions. Contact: (510)780-0243.

November 9–November 16 Publish The Net 2: Pagemill–WYSIWYG Comes To The WWW! San Francisco. Center for Electronic Art. Contact: (415)512-9300, *info@cea.edu* , or URL: *http://www.cea.edu/* .

November 10 Macintosh Graphics Smorgasbord Class. Berkeley. Kala Institute. Contact: (510)549-2977.

November 11–15 Oracle7 Introduction. Santa Clara. Learning Tree International. Contact: 1-800-850-9197.

November 11–December 16 Web Objects. San Francisco. Center for Electronic Art. Contact: (415)512-9300, *info@cea.edu* , or URL: *http://www.cea.edu/* .

November 11–December 2 Illustrator. San Francisco. Center for Electronic Art. Contact: (415)512-9300, *info@cea.edu* , or URL: *http://www.cea.edu/* .

November 12–15 Access Programming. Santa Clara. Learning Tree International. Contact: 1-800-850-9197.

November 12–15 C++ Object-Oriented Programming. Santa Clara. Learning Tree International. Contact: 1-800-850-9197.

November 12–15 TCP/IP Internetworking On Windows NT. Santa Clara. Learning Tree International. Contact: 1-800-850-9197.

November 12–December 17 Director. San Francisco. Center for Electronic Art. Contact: (415)512-9300, *info@cea.edu* , or URL: *http://www.cea.edu/* .

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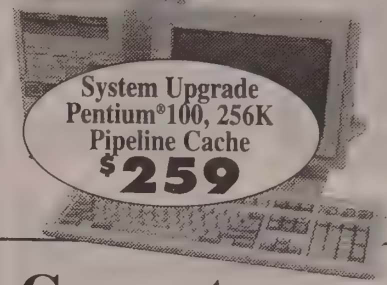

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- Intel NEWEST MARL Pentium® Chip-Based Motherboard
- Intel NEWEST MARL 82430 HX PCI Chipset
- Zif Socket (Zero Insertion Force)
- ***256K Pipline Burst Cache Installed***
- ***64MB (EDO) RAM High Speed 60ns***
- Teac 1.44MB 3.5" Drive
- ***Quantum 3.2GB New Enhanced IDE Hard Drive 10.5ms***
- ***MATROX MGA MILLENNIUM 4MB WRAM, MPEG Video Accelerator & MGA Real Time 3D Graphics Video Card***
- On Board PCI Bus Master IDE and Super Multi I/O 2-Hi Speed Serials & 1 Parallel Ports
- ***AWARD WINNING 17" IIYAMA VISION MASTER PRO. .26 1600X1280 HIGH RESOLUTION MONITOR.*** *80HZ Refresh Rate @ 1280 Resolution*
- Microsoft Natural Windows'95 Keyboard
- New Deluxe ATX Format Medium Tower Case w/230W PS

FREE U.S Robotic 33.6 w/Personal Voice Mails Speakers Phone Fax/Modem (Limited Offer)

Media-Gold Multimedia Package:

- * *CREATIVE SOUND BLASTER 32 WAVETABLE SOUND CARD*
- * **SUPER FAST 10X SPEED E. IDE CD-ROM DRIVE**
- * SUPER 180 AMPLIFIED MULTIMEDIA SPEAKERS
- * *FREE THE '96 GROLIER Multimedia Encyclopedia CD Title*
- * Free Logitech Mouseman Serial Mouse
- * Free new Windows '95 W/manual & cd
- * Free New U.S Robotic 33.6 w/ Personal Voice Mails Speakers Phone Fax/Modem (Limitted)

200MHz	**$3568**
166MHz	**$3298**
133MHz	**$3128**
120MHz	**$3058**

INFINITY-2000™

MEDIA-PYTHON

- Intel ADVANCED/EV Pentium® Chip-Based Motherboard
- EPA "Energy Star" Power Management
- Intel Pentium® Chip Processor
- Zif Socket (Zero Insertion Force)
- ***512K Pipline Burst Cache Installed***
- ***16MB (EDO) RAM High Speed 60ns***
- Teac 1.44MB 3.5" Drive
- ***FAST 2.1GB SCSI-2 Hard Drive***
- Adaptec 2940 PCI Fast SCSI-2 Cortroler
- ***MATROX MGA MILLENNIUM 2MB WRAM, MPEG Video Accelerator & MGA Real Time 3D Graphics Video Card***
- On Board PCI Bus Master and Super Multi I/O 2-Hi Speed Serials & 1 Parallel Ports
- ***New MAG DX1795 17" .26 PNP ON SCREEN PROGRAMMING Flat Screen, Energy Star Monitor***
- Mitsumi WIN '95 104 Keys Enhanced Keyboard
- Ultra Medium Tower Case w/250W Power Supply

FREE U.S Robotic 33.6 w/Personal Voice Mails Speakers Phone Fax/Modem (Limited Offer)

Media-Python Multimedia Package:

- * Built-in Creative Labs Sound Blaster Vibra 16 sound card
- * **TOSHIBA 8X SPEED E. IDE CD-ROM DRIVE**
- * SUPER 180 AMPLIFIEDMULTIMEDIA SPEAKERS
- * FREE The '96 Groler Multimedia Encyclopedia CD Title
- * Free Logitech Mouseman Serial Mouse
- * Free New Windows '95 W/manual & cd

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150MHz	**$2478**
133MHz	**$2428**
120MHz	**$2358**
100MHz	**$2328**

INFINITY-2000™

MEDIA-FLASH

- Newest Intel Pentium® Pro Performance /VS Motherboard
- Newest Intel NATOMAPCI Chipset (440FX)
- Intel Pentium® Pro Chip200MHz Processor
- ***256K Cache***
- ***32MB (EDO) RAM High Speed 60ns***
- Teac 1.44MB 3.5" Drive
- ***Quantum SCIROCCO 2.5GB ENHANCED IDE 11ms Hard Drive***
- ***MATROX MGA MILLENNIUM 2MB WRAM, MPEG Video Accelerator & MGA Real Time 3D Graphics Video Card***
- On Board PCI Bus Master and Super Multi I/O 2-Hi Speed Serials & 1 Parallel Ports
- ***AWARD WINNING 17" IIYAMA VISION MASTER PRO .25 1600X1280 HIGH RESOLUTION MONITOR.*** 72HZ Refresh Rate @1600 Resolution
- Microsoft Natural Windows'95 Keyboard
- Deluxe ATX Format Medium Tower Case w/230W Power Supply

FREE ZOLTRIX 33.6 Win Modem w/Voice Mail (Limited Offer)

Media-Flash Multimedia Package:

- * *CREATIVE SOUND BLASTER 32 WAVETABLE SOUND CARD*
- * **TOSHIBA 8X SPEED E. IDE CD-ROM DRIVE**
- * SUPER 180 AMPLIFIED MULTIMEDIA SPEAKERS
- * Free The '96 Grolier Multimedia Encyclopedia CD Title
- * Free Logitech Mouseman Serial Mouse
- * Free New Windows'95 W/manual & Cd
- * Free America on Line Start up Kit
- * Free Internet Start up Kit
- * Free Zoltrix 33.6 Win Modem w/voice Mail (Limitted)

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INTEL

Zappa Pentium P5- 75---------> 133MHz	$128
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Atlantis Pentium P5- 75----> 166MHz + Video +Sound	$238
Marl P5- 75-------> 200MHz (ATX Form Factor)	$158
Tucson P5- 75-----> 200MHz (ATX F F + Audio)	$198
Venus P6- 150----> 200MHz (ATX Form Factor)	$288
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P/I- P55T2P4 Pentium P5- 75------> 166MHz	$168
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P/I- XP6NP5 Pentium Pro Series	$328
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SUPER

P55STE Pentium P5- 75------> 200MHz (512K)	$198
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P6DNF Dual Pentium Pro series (Natoma Chipset)	$538
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INFINITY-2000™

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Speed Star Pro 64 PCI w/1MB (CL-5434)	$48
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Stealth 3D 2000 PCI w/2MB (S3-Virge)	$108
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Stealth Video 2121 TVPCIw/2MB (Retail Box)	$198

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17" GI770	$678
17" PT770	$778
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17" Sony 17SE-2T	$948
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17" NEC M700	$768
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MAG

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Sound Blaster Value IDE 32 P&P (Retail Box)	$148
Sound Blaster Value IDE AWE32 P&P (Retail Box)	$228

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Sporter Win-Modem & Fax 33.6 V.34 Int	$98
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WINDOWS NT WORKSTATION 4.0 (OEM)	$168
MICROSOFT OFFICE FOR WINDOWS '95	$218

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HP Sure Store C4324A, read 4X writer 2X	$808
HP Writable CD 74 min. / 5-Pack	$18/58
PANASONIC Power Drive(4X read, 2X write) Int/Ext	$488/618
PHILIPS CDD2000/10 2x write 4x read, Int. Dr only	$668
PHILIPS CDD2000/10 2x write 4x read, Int. W/kit	$798
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The Head to Head Gaming Network. Multizone (408)328-8555, 254-4160; (510) 252-9435. 24 hrs., up to 33,600. Thirty-two lines. Play War 2, C&C, Doom/Doom 2, Duke 3-D, Descent/Descent 2, Netmech, EF2000, Hexen/Heretic, and more! Free trial/pay. [Exp. #158.]

The Inferno. Multizone (408)225-2428, 244-0325, 749-0693; (415) 261-1618, 856-8746, 341-7516; (510)226-1911; telnet: bbs.inferno.com. 8-N-1, 24 hrs., 28,800. sixteen lines. Chat, PPP, IRC, Tradewars, Internet email. Adults only. Free trial. [Exp. #156.]

209

Maverick's Quodtegitur BBS. (209)223-1590. 24 hrs., 14,400. Doom/Wolfenstein add-ons, flight-sim patches, RIP/ANSI graphics. Free. Sysop: The Maverick. [Exp. #158.]

408

Angst BBS. (408)684-1514. 8-N-1, 24 hrs., 14,400. Santa Cruz happenings, health help, free Internet email, newsgroups. Voice support: (408)688-6002. Sysop: Cameron Jackson, psychologist. [Exp. #157.]

LiveWire. (408)298-8646. 24 hrs., 14,400. Arts and entertainment, discussion, Metro online, 2GB of shareware, free! [Exp. #157.]

LoST iN NoWHeRe. (408)927-7982. 8-N-1, ANSI/RIP. 24 hrs., 2400–28,800. Multi-platform assistance, files. Sounds, gaming. Fidonet. Key Club. Free/pay. [Exp. #158.]

My Dungeon of Files BBS. (408)954-9313. 8-N-1, 24 hrs., 14,400–28,800. San Jose's newest alias BBS. Free files on 1st call. No fee. Sysop: Dungeon Mistress. [Exp. #157.]

Pacific Exchange BBS. (408)946-8561. Full Internet SLIP accounts, satellite link, 16 CD-ROMs, 100,000 DOS/Windows files, more. Fee. [Exp. #158.]

Pacific Gaming Connection. (408)783-3415. 33,600. Play WarCraft 2, NetMech, Duke3D, Doom, and more. Twelve lines. Call today! [Exp. #156.]

Paradise City BBS. (408) 227-9822. 24 hrs., up to 28,800. 30,000+ newest DOS, Windows adult files. Games, internet email. Free. Sysop: Jim Reed. [Exp. #157.]

Rainbow Gender BBS. (408)732-1323. 8-N-1, 24 hrs., Information files and message section for those people who want information about being transgendered. Sysop: Rose Ann Cain, Ph.D. [Exp. #158.]

San Jose Link. (408)369-8483. 24 hrs., 28,800. ANSI/free GUI, full Internet access, multiline, running Wildcat! 5, Free/pay. Sysop: Kevin Swanson. [Exp. #156.]

The Benchmaster's BBS. (408)238-5885. 8-N-1, 9,600 +, Amiga-only PD board, lotsa fun stuff. Drop by anytime. [Exp. #158.]

The Fourth Quarter BBS. (408)226-8072. 8-N-1, 24 hrs., 14,400. NFL, NHL, NBA, baseball photos, sports chat, GIFs, BMPs, much more. Free. Sysop: John Lea. [Exp. #156.]

The Holodeck BBS. (408)261-1313, 935-9366. Online chat, realtime interactive games, SOC, LOC, files, Internet email, Telnet, IRC. Direct dial or Telnet to WWCOMM.COM . [Exp. #158.]

The Meating Place BBS. (408)926-6174. 24 hrs., 14,400/28,800. 10 lines. Gay/Bi, adult, email, chat, MatchMaker, GIFs, XXX stories. System password: MICRO. [Exp. #158.]

Virtual Valley Community Network. (408)999-0966. 24 hrs., 14,400. sixteen lines. URL: *http://www.virtual valley.com* , authorized Apple software distributor, FTP/GOPHER, internet email, chat, Free! [Exp. #157.]

415

A Family Bulletin Board. (415)459-6094. 24 hrs., 2400–14,400. Free files, downloads, investments, financial, Internet email, newsgroups, WWW. [Exp. #156.]

Flying High BBS. (415) 467-2303. 24 hrs., 14,400–28,800. Gay/straight XXX, games, L.O.R.D., 18+ verification for adult access. Free. [Exp. #156.]

Kewll BBS. (415)592-8520, 856-2320. 24 hrs., 2400–28,800. Games, files, forums, polls, Action teleconference, Interlink, Chatlink, Internet chat and email, WorldGroup. [Exp. #158.]

Kill-O-Byte BBS. (415)3441563. 24 hrs., 2400–36,600. Online files, CD-ROMs, games, Film Scripts, Amiga, IBM, OS/2, Windows. FREE! [Exp. #158.]

LunaCity BBS. (415)968-8140. 8-N-1, 24 hrs., 300–14,400. Free Usenet news and mail site. Space, SF discussions. *info@LunaCity.com* . [Exp. #156.]

SF NET. (415)824-8747. Internet PPP connection available, 50 lines of chat, files and fun. [Exp. #158.]

The Entrepreneur's Corner. (415)876-0439. 8-N-1, 24 hrs., 28,800. Network with other entrepreneurs. Internet coming soon, 17,000 files, free/pay. [Exp. #158.]

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  - ✓ Drive detaches from docking bay, use with headphones as a portable personal audio CD player
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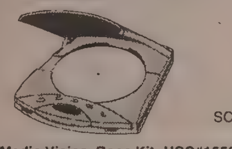
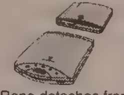
  - ✓ Brand new in box, 90-day warranty

Media Vision Reno Kit HSC#15586 **$99.95**





Reno detaches from SCSI2 Docking Bay for Complete Portability!

- **Media Vision *Reno* Kit HSC#15586 includes:**

B. Reno Cable Kit (SCSI2 - DB25 cable, 50p. ribbon cable, internal & external audio patch cables)
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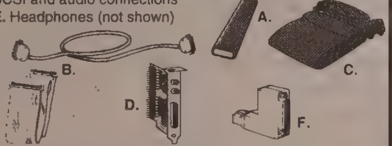

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- Made for cooling ceramic Pentium Processors (not metal)
- Heatsink is 2" x 2.875", .5" thick
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- Unit is new, and much cheaper than the separate parts!
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REALmagic MAXIMA

HSC# 16062 **$149.00**

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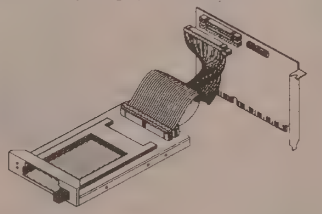
- IBM Compatible Reader/Writer for PCMCIA Cards
- SwapBox by SCM Microsystems with 16-bit ISA Bus card
- Convenient front access for slots (not in rear of system)
- Fits in 3 5" drive bay, or use included 5.25" bracket
- Dual slot, Type I, II or III, hot swappable
- Perfect for transferring data or hardware from laptops, notebooks or Kodak Cameras to desktop PC's
- Includes driver disk, manuals, cable, internal card, bracket
- New in OEM package (white box), 90-day warranty



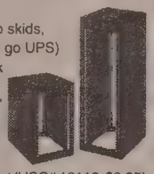
HSC#15954 **$79.95**

PCMCIA SCSI Card

- Mediavision PCMCIA SCSI II Card for Laptops
- Use with CD/ROM Drives, WORM Drives, Hard Drives, Scanners, any SCSI I or II device
- Bundled with Corel SCSI (ver. 2.04) software
- Cable, installation software, manual included
- Would make excellent laptop connection to *Reno*, above
- New in box with software, 90-day warranty

HSC# 15893 **$79.00**

House that Equipment!



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Orchid MPEG + Video!

- Orchid Technology Kelvin MPEG Video Card
- 64-bit graphics with MPEG Video on one card!
- Full screen 30 Frames/sec MPEG video plus audio
- Available in 1MB or 2MB versions.
  - ☞ 1MB version will display up to 800 x 600, 64K colors, or 1024 x 768, 256 colors
  - ☞ 2MB version will display up to 800 x 600, 16.7M colors, or 1024 x 768, 64K colors

ORCHID

- Manual, audio cable & driver software included
- Note, the MPEG portion is not Win95 compatible, but the video portion is. Everything works fine with Windows 3.1
- Manufacturer close-out of dealer returns, old shelf-stock, etc. so some packages may be opened, shelf-worn, etc.
- Ninety day HSC warranty

HSC# 16124 **1MB MPEG Card** **$69.00**
HSC# 16125 **2MB MPEG Card** **$89.00**

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- Maxoptix (by Maxtor) Tahiti I Removable Media Drive
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- Used, tested good, 90-day warranty
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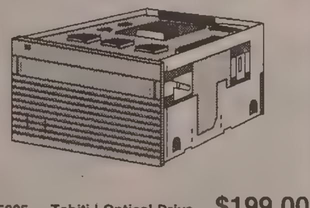
- Able to run files from drive, unlike tape backup units



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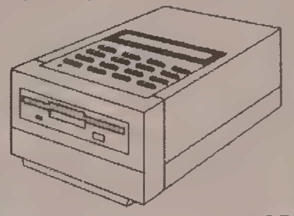

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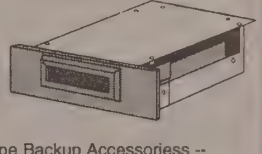

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continued on page 290

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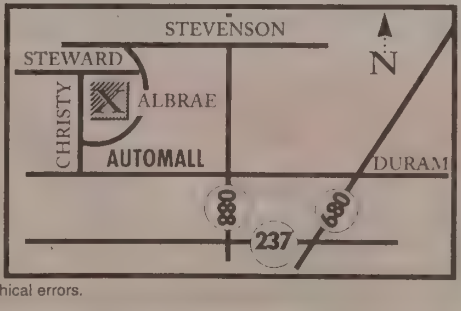

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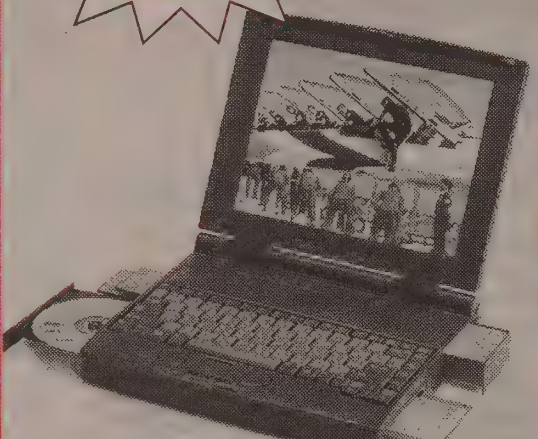

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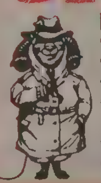

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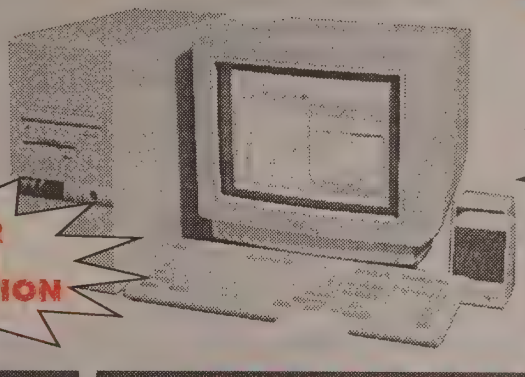

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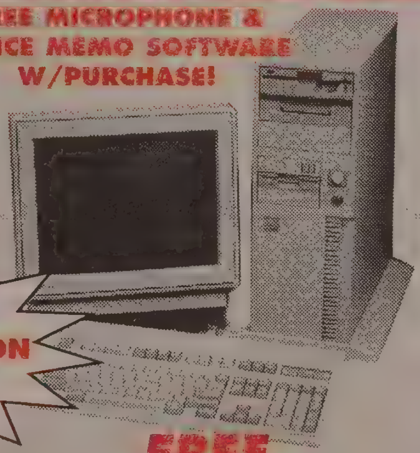

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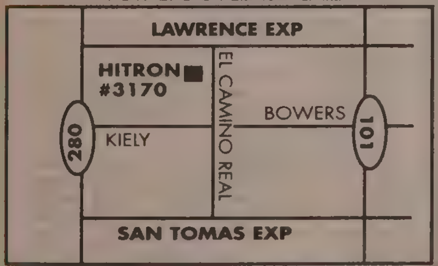

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- 14" .28dp N/I SVGA Monitor
- 8X CD ROM
- 104-Key Keyboard
- Mini Tower Case
- 230-Watt Power Supply
- Microsoft Windows 95
- Mouse

$1049

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TO Pentium 120	$29
TO Pentium 133	$75
TO Pentium 150	$149
TO Pentium 166	$279

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- Intel Tucson TC430HX 256K PB
- Intel P100 CPU w/fan
- Intel 430HX Triton II Chipset
- 16 MB RAM 60ns 72pin EDO
- 1.44 MB Floppy Drive
- Yamaha OPL3 Audio Sound Card
- 1.2 GB IDE HD
- Diamond Stealth 64 w/1MB PCI
- 15" .28dp N/I SVGA Monitor
- Toshiba 8 Speed CD ROM
- Mitsumi 104-key Keyboard
- Medium Tower Case
- 230-Watt Power Supply
- Microsoft Windows 95
- Mouse & 100 Watt Speakers

$1239

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- 1.6GB EIDE HD
- Diamond Stealth Video-VRAM 2MB
- Ilyama 17" 1600X1200 .26dp 8617E N/I SVGA Monitor
- 104-Key Keyboard
- Toshiba 8 speed CD ROM
- Mini Tower Case w/230w P.S.
- Logitech Mouseman II
- Windows 95 CD

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- Build in 16-Bit Sound Card
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Upgrade

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•TO Pentium 200	$515
•TO Pentium Pro 200	$675

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- Intel Pentium 100MHZ CPU w/fan
- 256k Pipeline Burst cache
- 16MB RAM 60ns 72pin EDO
- 1.44 MB Floppy Drive
- EIDE w/2S/1P(16550)
- 1.2GB EIDE HD
- Trident PCI SVGA W/ 1MB
- 16 Bit Sound Card On-Board
- 8 Speed CD-ROM & Speaker
- 15" .28dp N/I SVGA
- Mitsumi 104-key Keyboard
- Supra 33.6 Fax/Modem W/ Voice
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- Microsoft Windows 95
- Mouse & Speakers

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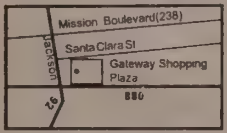

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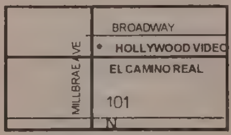

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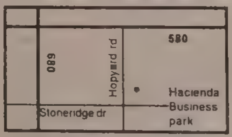

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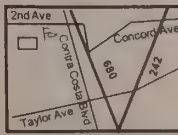

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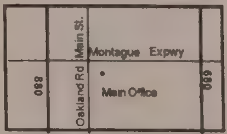

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- Intel Venus Mother Board
- Intel Pentium PRO200MHZ CPU
- 256K Cache on CPU
- 32MB RAM 60ns 72pin
- 1.44 MB Floppy Drive
- 2.0GB EIDE HD
- Matrox Millenium 2MB PCI Card
- Iiyamam17" .26DP 1600x1200 Non-Int Monitor
- US Robotic Internal28.8 Fax/Modem
- Toshiba 8 speed CDROM
- Sound Blaster 16 Sound Card
- Yamaha YSTM7 Speakers
- Microsoft Natural Keyboard
- ATX Medium Tower Case
- Microsoft Windows 95
- Microsoft Mouse

$2859

PENTIUM 133

- Intel Marl Main Board 256K Cache
- Intel P-133 CPU w/fan
- 16MB EDO RAM 60ns 72pin
- 1.44 MB Floppy Drive
- 32Bit EIDE W/HI SPEED IO
- 1.2GB IDE HD
- Diamond PCI Video Card w/1MB
- 15" .28dp NINT SVGA Monitor
- Mitsumi 104-key Keyboard
- Sound Blaster 16 Sound Card
- Toshiba 8X CD ROM
- 70 Watts Speaker
- ATX Medium Tower Case
- Microsoft Window 95
- MS Mouse

$1359

AMD5X86-133

- MicroStar 3PCI w/PowerSaving
- AMD 5X86-133 CPU w/Fan
- AMI BIOS w/256K Cache
- 16 MB RAM 60ns 72pin
- 1.44MB Floppy Drive
- PCi Enhanced IDE Controller
- High Speed I/O(2S 1P)
- 1.2GB IDE HD
- PCI Video Card w/1MB
- 14" .28dp SVGA NINT Monitor
- Mitsumi 104-key Keyboard
- Toshiba 8 Speed CD ROM
- Sound Blaster 16 Sound Card
- Microsoft win 95
- Mini Tower Case w/230w P.S.
- 3Button Mouse

$949

RACK MOUNT

- Intel Endeavor II Motherboard
- Intel Pentium 100MHZ CPU w/fan
- 256k Pipeline Burst cache
- 16MB RAM 60ns 72pin EDO
- 1.44 MB Floppy Drive
- EIDE w/2S/1P(16550)
- 1.2GB EIDE HD
- Diamond Stealth 64 w/1MB
- Mitsumi 104-key Keyboard
- 19" Rackmount Case w/250w P.S.
- Microsoft Windows 95
- Mouse

$1379

upgrade

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3C250 FMS 100 Base TX 12 port Hub	$1539
3C509 Etherlink III TP / Combo	$74/$89
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3C589 PCMCIA TP / COMBO	$139/$159
3C900 Etherlink III PCI TP/Combo	$97$119
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3C861 Impact ISDN S/T Interface Int	$389
3C862 Impact ISDN U-Interface built-in NT1 Int.	$429
3C871 Impact ISDN Digital Modem Ext	$344
3C872 Impact ISDN Digital Modem V.32 Ext	$529
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3C16180 Link Builder (9 port + BNC)	$179
3C16060 Link Builder FMS II Bridge	$485
3C16670 Link Builder FMS II 12 Port HUB	$524
3C16671 Link Builder FMS II 24 Port HUB	$945
3C16700 TPO Office Connect HUB 8 Port	$144
3C16701 TPC Office Connect HUB	$184
3C16710 TPM Office 8 Port w/Management)	$449
3C 30500 Linkswitch 500 10 Port stackable	$2549
3C 16901 Linkswitch 1000 12 Port	$2449
3C 16900 Linkswitch 1000 24 Port	$3149
3C 16640 Linkswitch 1200 6 Port FDDI	$4499
3C 22000 Linkswitch 2200 16 Port FDDI	$6249
Transcend Link builder FMS Management	$339

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ISDN Pipleline 25 single w/ NT1	$589/619
ISDN Pipleline 25 w.NT1 & Compression	$789
ISDN Pipleline 50single /w.NT1	$719/859
ISDN Pipleline 50 w.UBRI/SBRI	$1129/980

BOCA

10T Hub 8 Port	$149
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Arc Serve NLM for Windows 5/10/50 user	$244/$468/$809/$979
Arc Serve for Win NT Single Server	$475
Arc Serve for Win NT Enterprise	$795
Arc Serve for Mac 5/20 user	$149/299
Fax Server NML 5/10/25 user	$249/319/439
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Inoculan for Win NT Workstation Client.	$45
Inoculan for Win NT Single Workstation	$59

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CPA-2514A Router	$2190
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HEWLETT PACKARD

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EtherExpress 16 Coax / TP / Combo	$89/$80/$89
EtherExpress Pro 10 Combo	$98
EtherExpress Pro / 100 PILA 8465 PCI TP	$214
Netport II Thin & Thick / 10 BT	$385
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Notes Fax Server v1.0	$2199
Notes Gateway Fax Inbound v1.0A	$1999
Notes v3.3 for Windows	$349

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Ether EZ 16Combo	$85

Lanpro

Combo	$25
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15" 1280x1024 .28 DP AV56E	$329

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5V17" 1280x1024	$619

CTX

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15" 1024x768 .28dp Non-Int	$317
17" 17GME 1280x1024 27 DP	$579

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CM1721M U17" 1280 x1024 28 DP	$659
CM1711M U17" 1280 x1024 .26 DP	$829
CM2011MU 20" 1600 x1200 .28 DP	$1239
CM2110MU 21"1600X1200 .26 DP	$1579
CM2111MU 21"1600X1200 26 DP	$1749
CM2112MU 21"1600X1200 .26 DP	$1949
GX-21 21" 1600X1200 .28DP	$1740
UX-4921 21" 1600X1200 22DP	$2079
UX-6821 21" 1600X1200 .22DP	$2195

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MF-9017E 17" 1600X1280 .25 DP Non-Int	*$739*
MF-8221E 21" 1600 x 1280 @ 76 HZ .22 DP	$1435
MF-9021E 21" 1600 x 1280 @ 76 HZ	$1529

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3A 14" 1024 X 768 28DP NI full screen	$208
5 15" 1280X1024 .28DP NI	$283
7 Vienna 17" 1280X1024 PNP.28 NI	***$523***
14" Touch Screen Monitor	***$619***
15" Touch Screen Monitor	***$729***

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DX 1795 17" 1280X1024 26DP	$594
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DX 17T (Trinitron) .25AG	$687
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21F MX	$1417

NANAO/EIZO

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F2-21 .30dp 1600X1200 NI	$1799
T2-17 17" .25dp 1600x1200 NI	$949
T2-17TS 17" .25dp 1600x1200 NI	$889
T2-20 20" .30 dp 1600X1200NI	$1719

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14" .28dp SVGA 1024x768	$205
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CA1716DL 17" 1280X1024 .28DP	$549

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C500/M500 15" .28	$384/$527
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XV17 Plus	$764
XE17	$955
XP17	$999
XE21 21"	$1679
XP21 21"	$1904

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447K 17" 1600 x 1280 .25 speaker, camera	$1449
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GM-1562M 15" w/speaker&Microphone	$349
GM-1564 17" 1280X1024 .28DP	$579
GM-1764M 17" w/speaker&Microphone	$599

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15" .28 dp Digital Controll 1280x1024.	$309
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15SX1 15" 1280X1024 .25 PnP	$389
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17SE2 17" 1600X1200 .30 NI PnP.	$1794
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Model 954, P75, 8MB Ram, 256K ,810 MB HDD, 10.4" Dual Scan With Windows 95	$2489
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Model 355,Cyrix 5x86/100, 8MB 500MB HDD 10.4" Dual Scan Color, 1.44MB FDD, Win '95	$2269

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Ascentia 950N:P75,8MB, 1.2GB, TFT	$2895
Ascentia 950N.P120,8MB,800MB SVGA TFT	$4590

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5580: P75, 8MB,12.1" Active Matrix (TFT),Six Speed CD-Rom,810MB , Win 95.	$2879
5400.P75, 8MB Ram, 11.3 Dual Scan, 4x CD Rom, Built in Sound, 810MB, Win 95	$2169

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TO 16MB/32MB	$99/$355

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External Battery	$169

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14.4 PCMCIA Fax Modem	$79
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- Asus M.B. Triton II Chipset
- Cyrix P-166+ CPU w/Fan
- 16MB RAM 70ns 72pin
- 1.44 Floppy Drive
- EIDE HI Speed I/O
- 1.2GB EIDE HD
- PCI Video Card w/1MB
- 14" 1024x768 .28dp SVGA NINT
- Mitsumi 104-key Keyboard
- Mini Tower Case w/230w P.S.
- 8Speed CD-ROM
- Sound blaster 16 bit Sound Card
- Deluxe Speaker
- 3 Button Mouse & Pad
- Microsoft Window 95

$1239

CYRIX P-133+

- Asus M.B. Triton II Chipset
- Cyrix P-133+ CPU w/Fan
- 16MB RAM 70ns 72pin
- 1.44 Floppy Drive
- EIDE HI Speed I/O
- 1.2GB EIDE HD
- PCI Video Card w/1MB
- 14" 1024x768 .28dp SVGA NINT
- Mitsumi 104-key Keyboard
- Mini Tower Case w/230w P.S.
- 3 Buttom Mouse & Pad
- Microsoft DOS 6.22

$889

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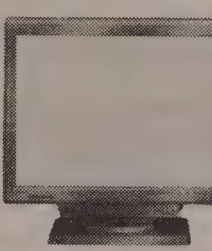

MF-9017E VisionMaster Pro

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- 17" Flat Screen Monitor
- Energy Conservation System
- SVGA to 1600x1200 Resolution
- Super High Refresh rates:
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  - 85HZ Maximum at 1280x1024
  - 72HZ Maximum at 1600x1200
- .25 AG Pitch
- Microprocessor Controlled
- 3-year Warranty

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MF-8221

- MPR II Low Radiation
- 21" Flat Screen Monitor
- Energy Conservation System
- VGA to 1600x1200 Resolution
- Super High Refresh rates:
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  - 90Hz Maximum at 1280x1024
  - 76Hz Maximum at 1600x1200
- .22mm Horizontal Dot Pitch
- Microprocessor Controlled
- 3-year Warranty

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EXB-8205XL 8mm Dat 3.5-7GB Int	$1249
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C1536 4mm Dat 4-8 GB SCSI Int	$679
C1533 4mm Dat 8-16GB SCSI Int	$879
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Surestore2000/4000/6000(w/kit)	$889/1039/1219

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2189 101-Key / 124-Key	$26/$42
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Ultra Omni	$89

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Adobe Pagemaker 6.0 for Win(Oem/Retail)	$175/499
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CC:Mail Group Pack for win w. Organizer	$595
CC:Mail Lan system 10 License	$545
CC:Mail Lan Trade-up 10 License(router)	$375
CC:Mail Mobile E-Mail 2 0 for win.	$135
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Lotus1-2-3 SmartSuite V3.0 CD ROM (OEM)	**$49**
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ML 380 24 pin	$235
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OL610E Laser 600dpi	$489
OL610E/PS Laser Postscript	$725
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2023 24pin	$179
2135 24pin Color	$249
3123 24 pin	$249
4430 Laser Printer 5ppm 1MB	$619
4440 Laser Printer 10ppm	$839

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System Diagnostic Checkup	$10
Multimedia Kit Installation	$30
Installation for Hard Drive	$20
Video Card + Driver Setup	$15
Install Motherboard	$30
Install Floppy Drive	$10
Install New Power Supply	$30
Install Tape Drive	$20
Install Fax/Modem	$30
Install Software/Setup	$30/Hr
System Troubleshooting	$40/Hr

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- Prices reflect cash discount
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- All returns must be in original packaging complete with manual, software, ..etc
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- Laitron Computer is not responsible for any typography errors
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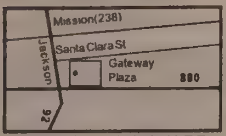

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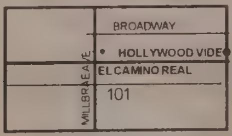

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MILLBRAE, CA 94030
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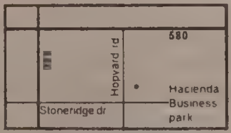

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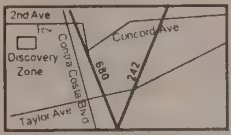

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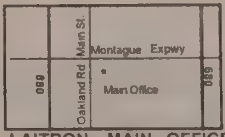

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USER GROUPS

AMIGA

AGA Flyers. Meetings: 7th of each month, 7:00 pm, 236 Waller St., San Francisco. We are Video Flyer, Lightwave, Imagine, ShapeShifter, and Amiga geeks! Contact: Corky Engel, (415)431-9111. [Exp.#161.]

AWEST–Amiga Users In SF. Meetings: 2nd Wed., 6:30 pm, Excelsior Branch Public Library, 4400 Mission St. (near Ocean), San Francisco. Call: (415) 474-1164. [Exp.#160.]

TOGA–The Other Group Of Amigoids. Meetings: 4th Sat., 12:30 pm, Milpitas Community Library Meeting Room, 40 N. Milpitas Blvd., Milpitas. An informal group to share ideas, PD software, and information. Free. Contact: Randy Abel, (408)356-9405 or *rabel1@cup.portal.com* ; or Warren Burnham, (408) 252-3406. [Exp.#161.]

ATARI

ABACUS–Atari Bay Area Computer Users Society. Meetings: 1st Sat., 1:00 pm, Potrero Branch Public Library, 2nd floor, 1616 20th St., San Francisco. Supporting all Atari computers and video games systems. Call: Roger Sinasohn, (415)469-7924. [Exp.#156.]

San Leandro Computer Club. Meetings: 1st Tues., 8:00 pm, San Leandro Main Library, Estudillo Room, 300 Estudillo Ave. Call: Robbie, (510)797-5636. [Exp.#157.]

CAD

BMUG CAD Special Interest Group. Meetings: last Tues., 6:00–7:45 pm, Center for Electronic Art, San Francisco. [Exp.#156.]

BMUG Mac CAD SIG. Meetings: last Tues., 6:00 pm, San Francisco Apple Office, One Bush St., 10th Fl. (at Market St.). Presentations, demonstrations. Free. Call: Steve Lukrofka, (415)931-8866 or *LUK@aol.com* . [Exp.#160.]

Marin AutoCAD Users Group (MAUG). Meetings: 1st Thurs., 6:30 pm, Autodesk, 111 McInnis Pkwy., Demo Rm., San Rafael (next to Embassy Suites). Call: Priscilla Mills, (415)491-9111. [Exp.#160.]

COMMODORE

C-HUG (Commodore Hayward User Group). Meetings: 2nd Sat., 2:00 pm, Palma Ceia Park Clubhouse, Hayward. Commodore 64 and 128 owners are welcome to attend. Call: (510)531-3734 or 793-7868. [Exp.#161.]

CWEST–Commodore 64/128 Users In SF. 2nd Wed., 6:30 pm, Excelsior Branch Public Library, 4400 Mission (near Ocean), San Francisco. Call: (415)626-9946. BBS (415) 441-1120. [Exp.#160.]

Diablo Valley Commodore Users Group. Meetings: 3rd Thurs., 7:00 pm, Contra Costa Water District Anteroom, 1331 Concord Ave., Concord. Call: (510) 689-3224. [Exp.#157.]

COMMODORE

FUNHUG (Fremont, Union City, Newark, Hayward User Group). Meetings: 3rd Thurs., 7:00 pm, Newark Public Library, 6300 Civic Terrace Ave., Newark. For the Commodore 64/128 computer. Call: (510)793-7868 or 793-2514. [Exp.#158.]

IBM AND COMPATIBLES

AT&T Computer Users Group. Meetings: 1st Wed., 7:00 pm, 50 Fremont St., 40th Floor (near 1st and Mission), San Francisco. Demonstrations, technical support, informal discussion. Call: (415)885-6631. [Exp.#161.]

Berkeley OS/2 Users' Group. Meetings: 2nd Tues., 7:00 pm, 243 Dwinelle, Berkeley. Contact: Matt (510)644-2618. [Exp.#160.]

Berkeley PC Users Group–BPCUG. Meetings: 2nd and 4th Tues., Winner's Circle Systems, 2618 Telegraph Ave., Berkeley. Public domain library, newsletter, and separate Beginners Special Interest Group meeting. Contact: Mel Mann, (510) 526-4033. [Exp.#160.]

Business Operations SIG of the Software Forum. Meetings: 1st Tues., 7:00 pm, Center for Software Development, 111 W. St. John St., Ste. 200, San Jose. $10. Call: Mike Schmit, (408)244-6826 or *mschmit@ix.netcom.com* . [Exp.#158.]

Diablo Valley User Group–DVPC. Meetings: 1st Thurs., 7:30 pm, Bank of America, Bldg. B, 2001 Clayton Rd. at Galindo, Walnut Creek. SIGs include Internet, Windows, Beginner's, Visual Basic, education/entertainment, and more. Call: (510)556-1449. [Exp.#158.]

East Bay FOG. Meetings: 2nd Wed., 7:30 pm, Episcopal Church of St. John-in-Montclair, 1707 Gouldin Rd., Oakland. All microcomputers, MS-DOS, CP/M. Call: (510)653-2627, 8 am–10 pm. [Exp.#158.]

Golden Gate Computer Society. Meetings: 4th Mon., 7:00 pm, San Rafael Community Center, 618 B St., San Rafael. Free intro to computers class at 6:00 pm. Call: (415)454-5556. [Exp.#157.]

Microsoft Access/VB Mid-Peninsula User Group. Meetings: 2nd Fri., Microsoft, 950 Tower Lane, Foster City. Contact: Jay Stewart, (415)567-7979. *jay@menders.com* . [Exp.#160.]

Napa Valley PC Users Group. Meetings: 2nd Wed., 7:30 pm. Guests welcome. Call: Lee Schwab, (707)257-2675 or *lee@community.net* for details and location. [Exp.#156.]

PC Clubhouse. Meetings: 1st Fri., 7:30 pm, swap at 7:00 pm, Meiklejohn Hall, Room 2002 (inside 1009), CSU Hayward. Share knowledge and PD/shareware, network of BBSes, mentor assistance, SIGs. Call: (510)276-6450 or 538-2449. [Exp.#160.]

San Francisco Business Computers. Meetings: 4th Tues., 5:30 pm, 110 Pacific, #153, San Francisco. For people who use computers in their work. Visitors $10. Call: (415)788-5338 or *425-1545@mcimail.com* . [Exp.#157.]

San Francisco PC Users Group. Meetings: 3rd Tues., 7:30 pm, PUC Auditorium, 505 Van Ness Ave./McAllister. Presentations, Q&A sessions. Call: Jerry Stern, (415)572-1100 or 777-1332 for recorded events message. URL: *http://www.sfpcug.org/~group* . [Exp.#160.]

South Bay WordPerfect User Group. Meetings: 3rd or 4th Tues., 7:00 pm, Saratoga Community Library, 13650 Saratoga Ave. (at Fruitvale), Saratoga. WordPerfect 6.1 for Windows product and education presentations. Free. Call: Scott Maiden, (408)253-4591. [Exp.#159.]

Stanford Palo Alto Users Group For PC. Meetings: one Wednesday a month, 7:30 pm, Conference Center at EPRI, 3412 Hillview, Palo Alto. All welcome. Call: Bev Altman, (415)329-8252 or URL: *http://www.MediaCity.com/~spaug* . [Exp.#160.]

INTERNATIONAL

International Software SIG Of The Software Forum. Meetings: 3rd Mon., 7:00 pm, Cubberly Community Ctr., 4000 Middlefield Rd., Rm. A-2, Palo Alto. $10. Call: Charlie Pfefferkorn, (408)923-7570 or *charliep@crystal-media.com* . [Exp.#158.]

INTERNET

BCOOL (Bay Area Computer Org. On-Line). Meetings: 2nd Fri., location varies. Free online classes, tech support, discussions, Web surfing, novices welcome, more. Contact: Lloyd, (415)459-8916, BBS (415)459-6094. [Exp.#160.]

BMUG GUI Internet SIG. Meetings: 2nd and 4th Weds., 7:00 pm, BMUG office, 2055 Center St., Berkeley. Accessing the Internet through World Wide Web using the Macintosh. Email: *dan_meriwether* or *susan_adrian@bmug.org* . [Exp.#160.]

Internet SIG Of The Software Forum. Meetings: 2nd Wed., 7:00 pm, Sun Microsystems, 2750 Coast, Bldg. 6, Mountain View. $10. Call: Walt Schilling, (415)390-9477 or *walters@svpal.org* . [Exp.#158.]

LEGAL

Bay Area CompuLaw Users Group. Meetings: every two months, Downtown San Francisco. Support/networking group of users of CompuLaw software. Free. Contact: Edward Zeidan, (510)283-5666 or *ezeidan@isconsult.com* . [Exp.#158.]

BMUG Law SIG/Law SIG. South. Meetings: 2nd Wed., 6:00 pm, Nossaman, Guthner, Knox & Elliot, 50 California St., 34th Fl., San Francisco. Call: Randy, (916)661-2280 or *rbs@aol.com* ; or Ted, (415)383-4783 or *tllindberg@aol.com* . [Exp.#160.]

SF Bar Assoc. WordPerfect User Group. Meetings: 3rd Wed. odd-numbered months, noon, SF Bar Assoc. Boardroom, 7th Fl., 685 Market St., San Francisco. Brown bag meetings. Call: (415)421-5650. [Exp.#158.]

MACINTOSH

Association Of A32 Users. Meetings: 2nd Sat., 10:00 am, Sunnyvale Community Center Arboretum, 550 E. Remington Ave. (near corner of El Camino and Fair Oaks). Q&A session; guest speakers and vendor demonstrations; shareware, freeware, and PD software disks. Call: (408)263-0398. [Exp.#158.]

BasicMac. Meetings: Tuesdays, 7:00 pm, BMUG SIG for beginning users. Contact: *doug_bourquin@bmug.org* . [Exp.#160.]

BMUG–Berkeley Macintosh User Group. Meetings: every Thurs., 6:30 pm, 2040 VLSB, UC Berkeley. Also free basic Mac classes every Tuesday, 7:00 pm at 2055 Center St., Berkeley. Call: (510)549-BMUG. [Exp.#158.]

BMUG Japanese SIG. Meetings: 2nd Tues., 7:00 pm, 708 Addison, Berkeley. Contact: Winnie, (510)843-5626 [Exp.#160.]

BMUG LesBiGay SIG. BMUG office, 2055 Center St., Berkeley. Lesbian, bisexual, and gay Mac users and their friends. Call: Dale (510)632-7020. [Exp.#160.]

BMUG Mac Women's SIG. Meetings: 2nd Sunday, 6:00 pm, Mac and more for and by women. Contact: Flora, (510)644-4587. [Exp.#160.]

BMUG Scripting SIG. Meetings: alternate Wed., 6:00 pm, BMUG office, 2055 Center St., Berkeley. Apple Event scripting. Contact: *derrick_schneider@bmug.org* . [Exp.#160.]

Macs Of Marin. Meetings: last Wed., 7:30 pm, Corte Madera Rec. Center, 498 Tamalpais Dr., Marin. Q&A 7:30, meeting 8:30, members free, non-members $5. Call: Richard, (415)485-5596. [Exp.#161.]

OpenDoc/Macintosh SIG Of The Software Forum. Meetings: 3rd Tues., 7:00 pm, Apple Computers, DeAnza 3, Beatles Room, Mariani Ave, Cupertino. $10. Call: Tony Meadow, (510)834-5300 or *tmeadow@bearriver.com* . [Exp.#158.]

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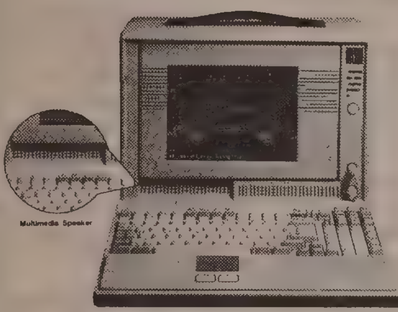

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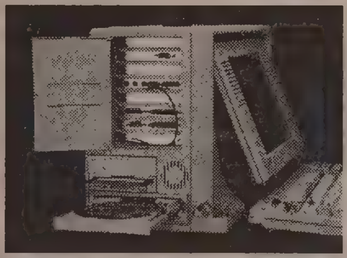

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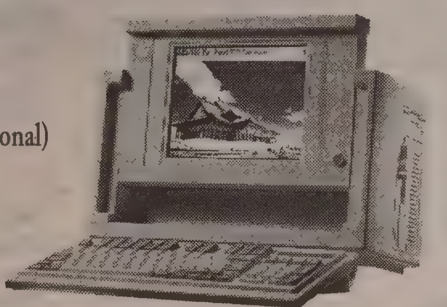

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USER GROUPS continued...

SMUG (Stanford/Palo Alto Macintosh User's Group). Meetings: 1st Mon., 7:00 pm, Roche Bioscience Auditorium, 3401 Hillview Ave., Palo Alto. Call: (415) 856-3113 or *smug@netcom.com* . [Exp.#160.]

TriValley Macintosh User Group (TMUG). Meetings: 3rd Tues., 7:30 pm, Sonoma School, 543 Sonoma Ave., Livermore. Beginners to experts; library, newsletter, SIGs, and a BBS. Call: Jerry, (510)828-0959. [Exp.#158.]

MISCELLANEOUS

C/C++ OOP SIG. Meetings: 4th Weds., Cubberly Community Ctr., 4000 Middlefield Rd., Rm. H-1, Palo Alto. Starts in September. Contact: Jack Reeves, *jack@fx.com* . [Exp.#158.]

Computer Users for Social Responsibility. Meetings: Last Sun., 3:00 pm, Berkeley. Contact: Karen, (510)987-0567. [Exp.#160.]

Games SIG. Meetings: Cubberly Community Ctr., 4000 Middlefield Rd., Rm. H-1, Palo Alto. Starts in August. Contact: Byron Hale, (408)358-8064 or *blhale@einfo.com* . [Exp.#158.]

IICS Human Interface SIG. Meetings: 4th Tues., 6:30 pm, KQED Board Room, 2601 Mariposa Ave., San Francisco. Refreshments, networking. Contact: Bob Brescia, (415)777-5486. [Exp.#156.]

The South Bay Home Brew Robotics Club. Meetings: last Weds., 7:30 pm, Cupertino Public Library Community Room, 10400 Torre Ave., Cupertino. Focus is on autonomous robots controlled by on-board computers. Contact: Chuck McMannis, (408) 245-9652. [Exp.#161.]

MOBILE

Bay Area Magic Cap User Group (BAMCUG). Meetings: 4th Thurs., 7:00 pm, General Magic, 420 North Mary Ave., Sunnyvale. All Magic Cappers, from novice to advanced nerd status, are invited to attend. Contact: (408)736-5477. [Exp.#158.]

Stanford Newton User Group. Meetings: 2nd and 4th Tues., 7:00 pm, Printer's Inc. Bookstore Cafe, 310 California Ave., Palo Alto. Contact: Flash Sheridan, (415)462-9203, *snug@pobox.com* , or URL: *http://pobox.com/~snug/* . [Exp.#161.]

MULTIMEDIA

Multimedia SIG Of The Software Forum. Meetings: 4th Thurs., 7:00 pm, Cubberly Community Ctr., 4000 Middlefield Rd., Rm. H-1, Palo Alto. $10. Call: Larry Shoenberger, (415) 592-3731 or *larrys@hooked.net* . [Exp.#158.]

NETWORKING

Network Professional's Guild (NPG). Meetings: 2nd Tues., 6:30 pm, 5403 Stevens Creek Blvd., Santa Clara. Network engineering - Windows NT, Novell, Intranet/Internet, and related technologies. Contact: Bill Strouse, (408)323-0701, fax: (408)323-9502, email: *wstrouse@best.com* , URL: *http://www.engineers.com/net/meeting.htm* . [Exp.#159.]

San Francisco NetWare Users Group (SFNUG). Meetings: 2nd Tues., 6:00 pm, 4 Embarcadero Center, Ste. 540, NetWare and related software/hardware. Good food, no dues. [Exp.#161.]

PARADOX

bapals (The Bay Area Paradox Users Group). Meetings: 4th Tues., 4:30 pm, 685 Market St., San Francisco. Call: (415)995-4688. [Exp.#159.]

PROGRAMMING LANGUAGES

BMUG Programmers' SIG. Meetings: alternate Weds., 7:00 pm, BMUG office, 2055 Center St., Berkeley. Mac Toolbox, C, and Pascal. Call: (510)549-BMUG. [Exp.#160.]

Delphi SIG Of The Software Forum. Meetings: 2nd Wed., 7:00 pm, KnowledgePoint, 1129 Industrial Ave., Petaluma. $10. Contact: Bjarne Winkler, (415)461-8086 or *nts4618086@aol.com* . [Exp.#159.]

Delphi Users Group of SVCS. Meetings: 1st Thurs., 7:00 pm, Siemens Rolm, 4900 Old Ironsides Dr., Santa Clara. Contact: Eugene Paymar, *epaymar@hooked. net* , or URL: *http://www.hooked.net/users/maldewin/delphi* . [Exp.#161.]

Forth Interest Group, North Bay Chapter, and BMUG Forth SIG. Meetings: 2nd Sat., 1 pm, tutorial at noon, 2055 Center St., Berkeley. Call: Leonard Morgenstern, (510)376-5241 or *NLeonard@aol.com* . [Exp.#157.]

Java SIG. Meetings: 1st Monday, Cubberly Community Ctr., 4000 Middlefield Rd., Rm. H-1, Palo Alto. Contact: Tom Hill, (408)996-0650, or *javasig@worldware.com* . [Exp.#158.]

Visual Basic-San Francisco SIG. Meetings: 3rd Thurs., 6:30 pm, Terrace Systems, 450 Sansome St. at Clay, Suite 1250, San Francisco. Contact: Bill Storage, (415)495-6396, or *75250.1360@compuserve.com* . [Exp.#158.]

TEXAS INSTRUMENTS

TI-99/4A. Meetings: 2nd Sat., Oakland. Need soft-/hardware? Call: Fred, (510)530-8335. [Exp.#156.]

UNIX

UNIX SIG. Meetings: 2nd Tues., 7:00 pm, Amdahl Corp., 1250 E. Arques Ave., Sunnyvale. $10. Call: George Bosworth, (415) 851-3304 or *georgeb@netcom.com* . [Exp.#158.]

WINDOWS

Bay Area Windows NT User Group. Meetings: 1st Sat., 1:00 pm, U.C. Berkeley. Using Windows NT in Internet/Intranet environments. Contact: (510) 528-9895, or *edwin@wyp.net* , or URL: *http://wyp.net/users/ntgroup/* . [Exp.#158.]

Official Northern California Windows NT User Group. Meetings: 1st Weds., even-numbered months, 9am–12 noon, 950 Tower Lane, Ste. 900, (Microsoft Office) Foster City. All are encouraged to attend regardless of experience. No fee. Contact: Tracy, (415)591-7752 or *tracy@actioninc.com* . [Exp.#159.]

ASSOCIATIONS

Association For Women In Computing. Meetings: 1st Wed., 6:00 pm, Standing Room Only, Crocker Galleria, 50 Post St., San Francisco. $10 members, $15 guests. Call: (415)979-8450. [Exp.#161.]

Bay Area Association Of Entrepreneurial Software Engineers. Meetings: 1st Thurs., 6:30 pm, Ming's, Palo Alto. Dinner, lectures, discussion, brainstorming, networking, product development, financing, marketing, distribution. Contact: *reserve@baaese.ipser.com* or URL: *http://www.ipser.com/ baaese* . [Exp.#156.]

CATALYST! Potluck Meetings. Meetings: 3rd Wed., 6:30 pm, Palo Alto. Entrepreneurial global trade, business contacts, travel, alternative medicine resourcing network. Contact: Marie, (415)337-4261. [Exp.#156.]

CSPA (Chinese Software Professionals Association). Meetings: 2nd Wed., 7:00 pm, Ming's Villa Restaurant, 1700 Embarcadero Rd., Palo Alto. Member: $15 dinner/presentation, $5 presentation only; non-members: $25 dinner/presentation, $10 presentation only. Contact: Steve Gu, (408)565-5175. [Exp.#160.]

International Interactive Communications Society. Meetings: 2nd Tues. 6:00 pm, Professional association for individuals involved in multimedia, from marketing to graphics and programming. Call: (415)553-2300, hotline: (415)252-8114. [Exp.#158.]

Windows NT Engineering Association of Silicon Valley (NETA). Meetings: 2nd Tues., 6:00 pm, Santa Clara County Office of Education building, 1290 Ridder Park Dr., San Jose. Idea exchange, new technology, job opportunities. Meetings will focus on design, set-up, and troubleshooting servers, system administration, and software development issues. No fee for first-time participants. Contact: (408)437-8803. [Exp.#160.]

Windows SIG Of The Software Forum. Meetings: 1st Wed., 6:30 pm, Cubberly Community Ctr., 4000 Middlefield Rd., Rm. H-1, Palo Alto. $15. Call: Fran Finnegan, (415)288-4400 or *76244.145@compuserve.com* . [Exp.#161.]

Is Your Listing Missing?

Free user group and association listings are limited to the group's name, meeting information, contact name and phone number, and a ten-word description. They will be **deleted at six-month intervals** to ensure timeliness and accuracy of information.

Free BBS listings are limited to the board's name, phone number, hours, baud rates, parameters, and a ten-word description. Please let our readers know if your BBS is free or requires a fee. Because we have an ongoing problem of boards shutting down without telling us, much to the annoyance of would-be callers and the new phone number's owner alike, we will **delete these listings after they've run three months.** The notice at the end of the listing—Exp. *#xxx*—refers to the last issue number it will appear in unless renewed.

You can update or renew your listings at any time. If yours is missing, send your listing information to: US Mail should go to: MicroTimes User Group, 3470 Buskirk Ave., Pleasant Hill, CA 94523. **Faxes** are welcome at (510)946-2974. **Email** can be sent to: *callen@bammedia.com* or MCI:MICROTIMES.

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- Intel Pentium® Pro Motherboard
- 256K Pipeline Burst Cache
- 32MB EDO RAM
- 2GB SCSI Hard Drive
- 1.44 Floppy Drive
- Diamond Stealth 64 PCI SVGA w/ 1MB DRAM
- 15" MGC .28 SVGA Digital Monitor
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- MS Serial Mouse
- Enhanced Keyboard

Pentium® Pro 200MHz	**$2319**

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6X Multimedia

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- Diamond Stealth 64 PCI 2MB DRAM
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- Medium Tower w/230Watt PS
- Enhanced 104 Keyboard
- MS Serial Mouse

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Pentium® 150MHz	**$1449**
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17" MAG, 33.6 Modem
8X Multimedia

- Asus Motherboard
- Intel Triton Chipset
- 512K Pipeline Burst Cache
- 32MB EDO RAM, 60ns
- 2.0GB EIDE Hard Drive
- 1.44 Floppy Drive
- Diamond Stealth 64 PCI 2MB VRAM Upgradable
- 17" MAG DX1795 NI SVGA .26 Monitor PnP
- 8X EIDE CD-ROM Drive
- SB 32 Sound Card w/Wave Table
- Supra 33.6 Internal PnP Modem w/ Voice
- 180 Watt Stereo Speakers
- Full Tower Case w/230Watt PS
- MS Natural Keyboard
- MS Serial Mouse

Pentium® 120MHz	**$2029**
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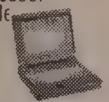

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- 1.44 Floppy Drive
- CD-ROM Drive
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- 16 Bit Sound Card

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Microsoft Natural	**57**

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Intel Venus Pentium® Pro	**285**

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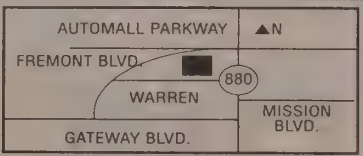

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- Hard Disk 1.0Gb EIDE (PIO:4)
- Windows Accelerator PCI w/ 1Mb
- 15" Super VGA Color Monitor (1024x768) .28 NI
- Mitsumi 104 Keys Enhanced Keyboard
- Mini Tower Case w/ 230 Watt Power Supply
- Logitech 2 Buttons Serial Mouse
- 8X CD-Rom Drive
- Sound Blaster 16-bit Sound Card (Creative Labs)
- Pair of Amplified Speakers 25 Watts

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- Keytronic 104 Keys Enhanced Keyboard
- ATX Super Mini Tower Case w/ 235 Watt Power Supply
- Microsoft Ergonomic PS-2 Mouse
- 8X CD-Rom Drive
- Sound Blaster 16-bit Sound Card (Creative Labs)
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- Floppy Drive 1.44Mb
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- Diamond Stealth 3D 2000 w/ 2Mb (64-bit)
- 15" Acer 56E Digital Color Monitor (1280 x 1024) .28 NI
- Keytronic 104 Keys Enhanced Keyboard
- ATX Super Mini Tower Case w/ 235 Watt Power Supply
- Microsoft Ergonomic PS-2 Mouse
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- Yamaha OPL3-SA 16-bit Sound Card (On-Board)
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- 16Mb Ram Installed (72-pin)
- EIDE Controller 4HD & 2FD w/ 2s (16550), 1P (EPP)
- Floppy Drive 1.44Mb
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- Diamond Stealth 64 PCI w/ 2Mb Dram (64-bit)
- 15" Acer 56E Digital Color Monitor (1280 x 1024) .28 NI
- Keytronic 104 Keys Enhanced Keyboard
- Super Mini Tower Case w/ 230 Watt Power Supply
- Logitech Mouse Man Combo Mouse
- Toshiba 5602B 8X CD-Rom Drive
- Sound Blaster 16-bit Sound Card (Creative Labs)
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- Hard Disk 2.5Gb EIDE PIO:4 (WD-32500)
- Matrox Millennium PCI w/ 2Mb WRAM (64-bit)
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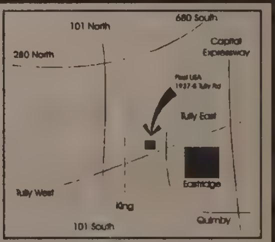

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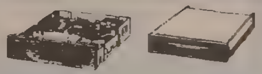

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Mitsumi 104 Enhanced Keys	$13
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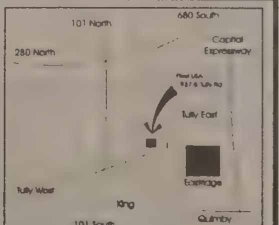

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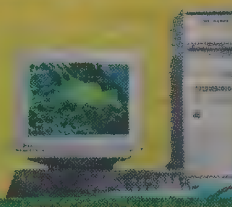
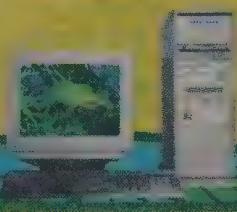

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- Intel "Natoma" Dual Pentium® Pro Processor Motherboard
- 32MB EDO RAM, 60ns
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- Enhanced IDE Controller with I/O
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- 1.44 Floppy Drive
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- Enhanced IDE Controller with I/O
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- AMI Plug & Play Flash Bios
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- Super Medium Tower w/4 Cooling Fans and One Back Up Cooling Fan

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- 1.44 Floppy Drive
- PCI Windows Accelerator w/1MB
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- Mitsumi Windows 95 Keyboard
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- MS Compatible Mouse w/Pad

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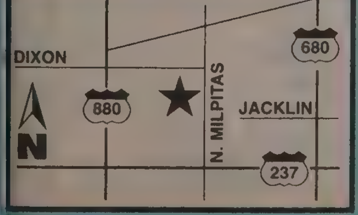

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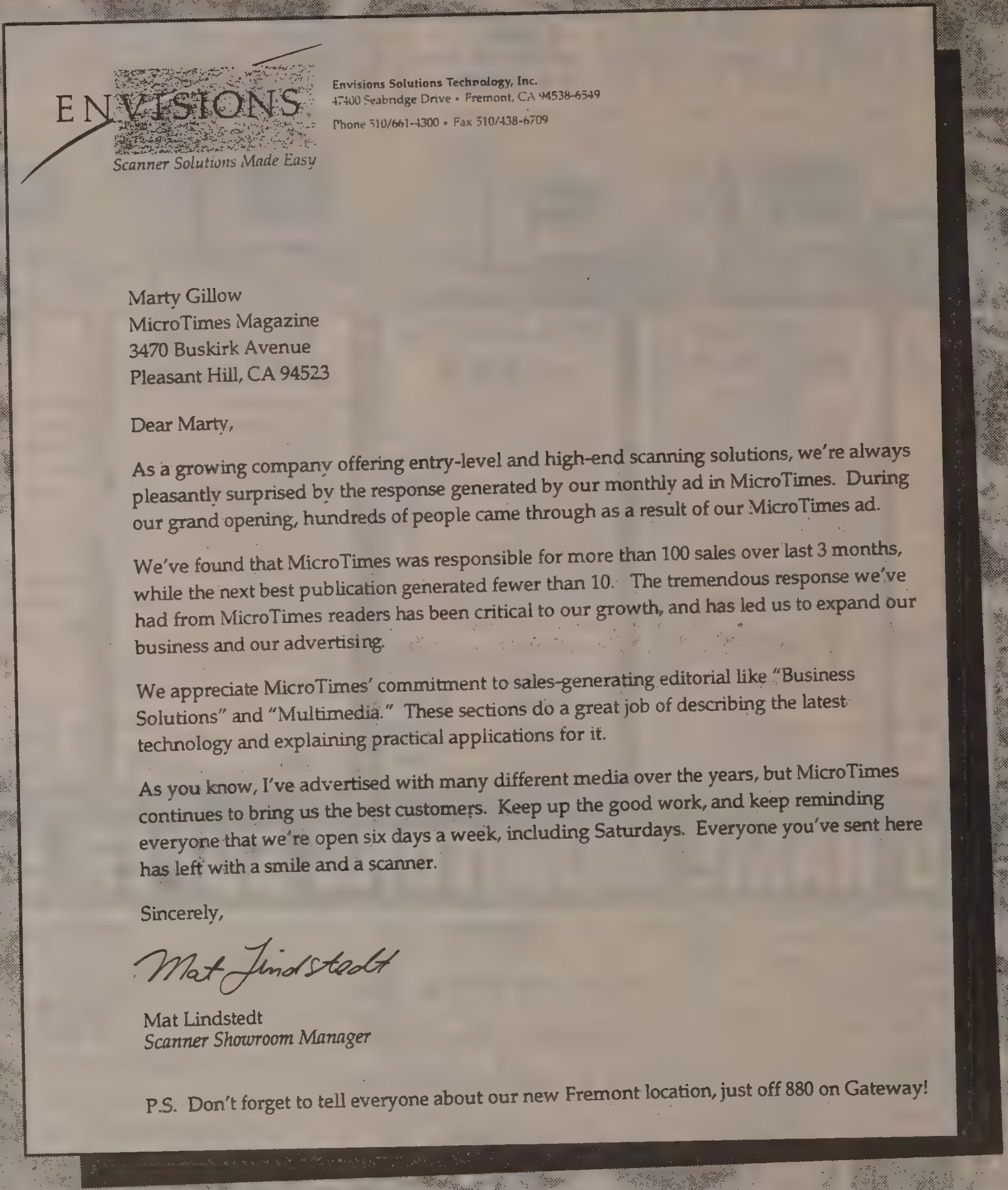

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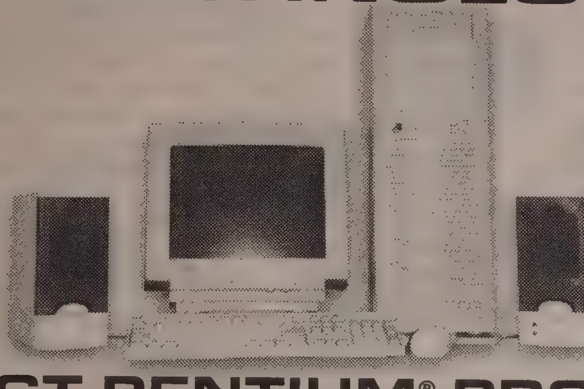

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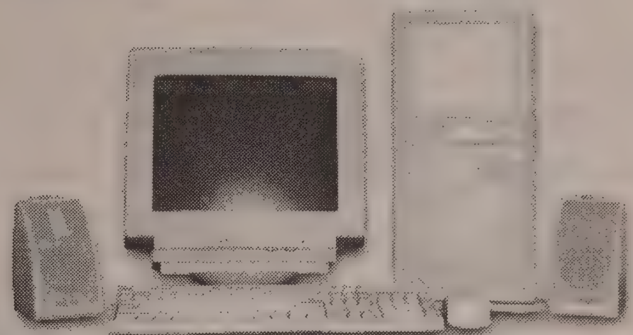

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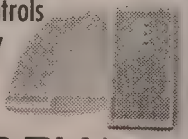

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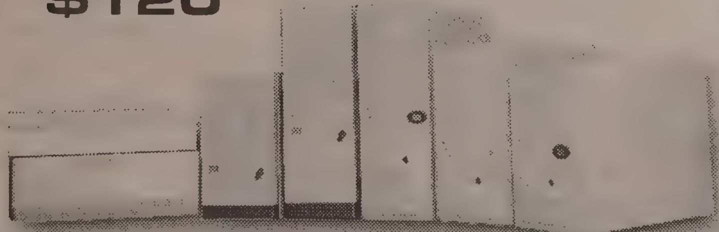

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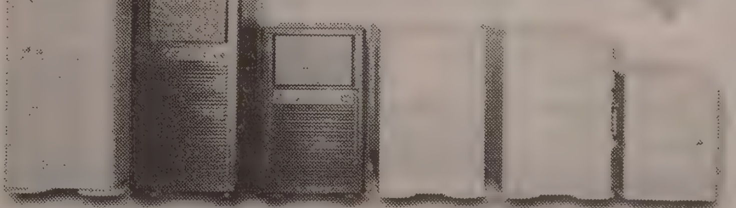

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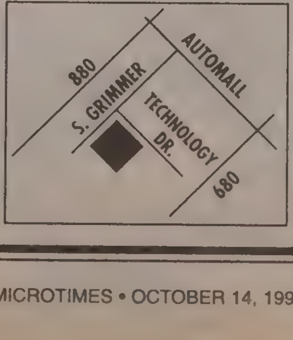

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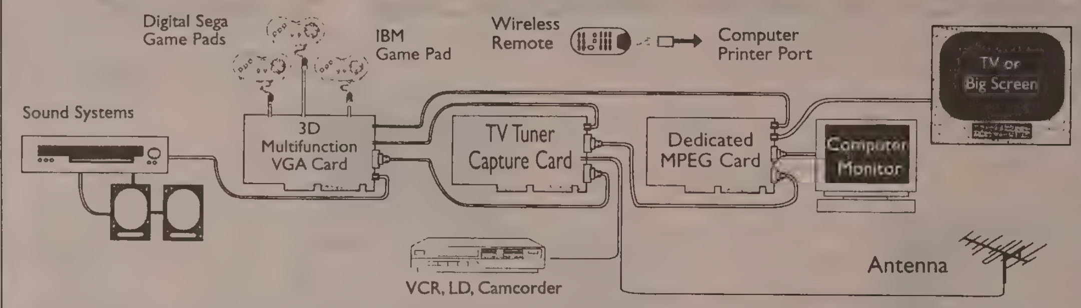
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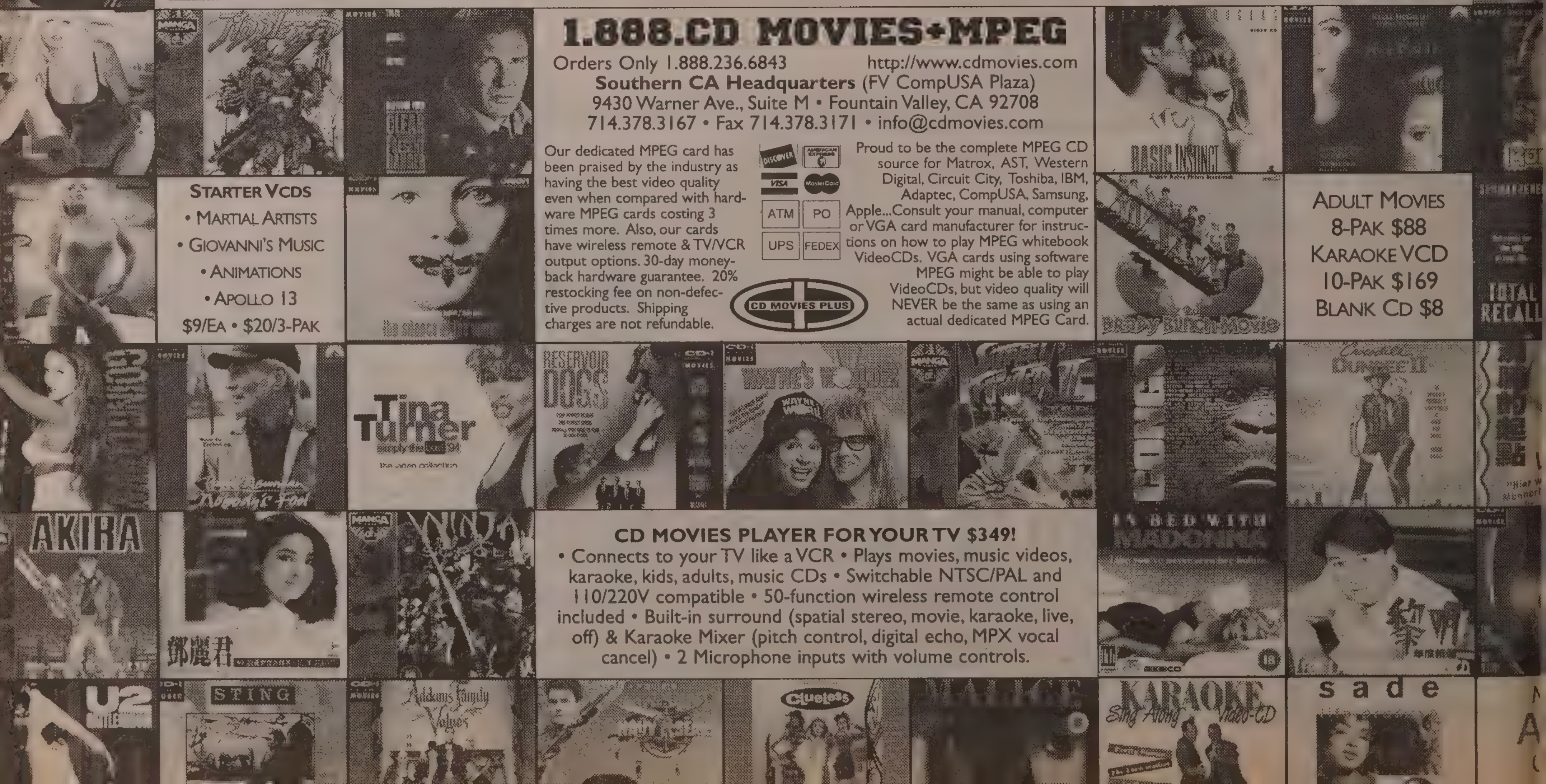
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3C597 10/100BaseT EISA/5-Pk	265/1,262
ASANTE AsanteFAST 10/100 PC & MAC PCI	217
AsanteFAST 10/100 PC & MAC PCI 5/20Pk	1,038/3,677
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SMC Tigerhub 100 8-pt 100BTX Hub/16-pt	1,231/2,368

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COMPAQ 8-Port Snappable	650
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NPI Nuswitch FE101 1-100TX, 1-10BT Switch	530
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FE224C 2-100tx, 24-10bt	2,310
FE600 6-100Tx, Full Duplex	3,003
SMC TigerSwitch XFE, 16 10BT, 1 100BT	2,716

Network Management

3COM Transcend Workgroup Mgr for Windows	496
Transcend Enterprise Mgr for Windows	2,462
INTEL LanDesk Mgmt Suite 5/10/100 users	522/696/4,240
LanDesk Server Manager Pro	1,232
LanDesk SNMP Gateway/Response	552/692
NOVELL Lanalyzer for Windows	1,174
NetWare LANalyzer Agent v1.0 Single/Multi	1,198/1,983

Long Distance Repeaters

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TUT Systems XL1501 (1BNC/1RJ11) 1500'	991
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Backup Exec Autoloader Option	432
Backup Director NLM 1 SVR (25 Users)	440
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Storage Manager Single Server 25 Users	733
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STAC Replica for NetWare/Multi-Server Option	713/434
Replica High-Performance Option	434
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SONY SDT-5000 DDS2 4mm DAT Int/Ext	954/1,104

DSU/CSU

MOTOROLA DDS/MR64 V.35 or RS232	463
Switched 56 II v.35	636
FT100S V.35 or RS232	985

Remote Access

ARTISOFT InSync Modemshare 1/2 Ports	129/187
Insync Modem Share 4/8 Ports	348/592
CITRIX WinView Software 10-User	2,239
DIGI LANAserver 2E 2 Async/4E Async	1,290/1,907
LANAserver 6E 4 PCMCIA slots; 2 Async	2,152
LANAserver 8E 8 Async	2,588
LANAserver 10E 8 PCMCIA slots; 2 Async	2,896
EMULEX Connect Plus 2 ports/8 Ports	746/2,417
NOVELL NetWare Connect 2/8/32 pts	340/1,362/4,105
NetWare Connect 2-port w/Modem and Serial I/O	905
NetWare Connect 8-port w/Modem and Serial I/O	3,341
HEWLETT PACKARD AdvanceStack Dial-A-LAN Modules	
2A/Plus Module and SNMP Bundle J2633A	2,228
4A Module and SNMP Bundle J2634A	1,754
SHIVA Netmodem/E 28.8	889
Lanrover/E Plus w/2 Async ports/4 Async	1,784/4,329
Lanrover/E Plus w/2 v.34 modems/4 v.34	2,435/5,715
Lanrover/E Async 8 Async/8 v.34 modems	3,652/7,729
DIGI INTERNATIONAL Digi 2-Pt/4-Pt/8-Pt	200/455/588
Acceleport 8EM ISA w/ RISC CPU, DB25	726
XIRCOM NetAccess 4-pt/8-pt	1,671/2,836

ISDN Connectivity

3COM Impact IQ 3C882	368
ASCEND Pipeline 25-PX Single IP/IP & COMP	622/926
Pipeline 25-FX Bridging/COMP	532/838
Pipeline 25-FX IP or IPX/COMP	786/1,103
Pipeline 50 w/NT1, COMP, IPX,IP Single/Multi	860/1,002
Pipeline 75 Multi w/NT1, COMP, IPX, IP, 2 Analog	1,134
Pipeline 130 w/FT1,T1,ISDN	1,361
Pipeline 130 ISDN & L56/SW & L56	1,271/1,361
Max 200 Plus w/4 BRI Cards	3,130
Max 1800 8BRI-16 users w/NT1	5,382
DIGI DataFire U Client ISDN (PPP)	398
DataFire Server S1 Server-Based ISDN	536
PC-IMAC ISDN	533
PC-IMAC Multiport ISDN/4-1/4-2/4-4	672/1,064/2,092
MOTOROLA BitSurfr PRO ISDN TA w/NT1 w/2 analog	399
NT1D Network Terminator	186
SHIVA Lanrover/E Plus 2-BRI Enet	2,539
Lanrover/E Plus 4-BRI Enet	6,217
US ROBOTICS Sportster ISDN adapter	399
Courier-I Modem w/V.34 w/Analog Int/Ext	487/542
Courier-I Modem w/ISDN/V.34 w/o Analog Int/Ext	432/542

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Jetpress MIO for HP4/MIO PLUS	349/451
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JetDirect Ethernet EX Plus (Multiprotocol)	303
JetDirect EX Plus3 (3 LPT/Multiprotocol)	415
JetDirect Token Ring EX/EX Plus3	567/682
INTEL Netport EL Ethernet/Token Ring	422/588
NetportExpress XL for Ethernet/TR	415/565
Netport Pro Int(MIO)/3 PACK	281/820
Netport Pro Ext 2P/1S/3 PACK	402/1,185

Network Fax Solutions

CASTELLE FaxPress 1000, 10BT/BNC	1,576
FaxPress 2000 1-line/FaxPress 2000 2-line	2,367/2,709
Faxpress 3000 2-line/FaxPress 3000 4-line	2,986/3,580
CHEYENNE FaxServe 3 NLM 5/10/25	393/717/1,177
FaxServe 3 NLM 50/100	1,816/2,533
FaxServe 3 NLM 250/500/1000	3,801/4,982/6,229
SYMANTEC Net Satisfaxtion 25/1000 users	742/990
Winfax Pro for Networks 5/10/25/50	384/ 640/1,478/2,754
Starter Kit (1 Server, 2 nodes)	258

Network CD-ROM

MERIDIAN CDNET PLUS DOS/NLM (10 Users Start)	677
CDNET Plus DOS/NLM (100 Starter Kit)	1,482
CDNET Plus Expand (50/100)	525/896
CD NetLink Miniserver 7/14	695/936
MICRO DESIGN SCSI Express for NetWare, MDI	599
SCSI Express CDROM, Non-MDI	808
CD-Rom LaserBank 600CD Ext. Single/Dual	599/1,117
MICROTEST Discport Ethernet/Token Ring	488/818
Discport w/ Discview Pro ENET/TR	733/1,066
Discport w/NEC Ext. 6X Speed CD-Rom	859
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Powerchute Plus for Novell/Unix/Windows NT	99/149/99
Smart-UPS Value Server 420/650	291/343
Smart-UPS Value Server 1000/1400	484/635
Smart-UPS 450/700/700RM/1000	330/398/499/548
Smart-UPS 1000RM/1400/1400RM	646/675/805
Smart-UPS 2200/3000/3000RM	1,183/1,895/2,061
Matrix 3000/5000/Smartcell	3,720/4,616/537
SNMP Agent for Novell/SNMP Mgr for Netware	125/145
Netshelter RACK for servers	1,700

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RJ45 10 BaseT Connectors (100 pak)	40
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MICROTEST MT310 Kit	739
MT350 Value Kit/Fiber Solution Kit	1,837/1,482
Penta Scanner w/Super Injector	2,910

Novell Software

Lan WorkPlace for DOS Single/10 Users	197/1,498
Lan Workplace for Mac Single/10 Users	289/1,437
Lan WorkGroup-5/10/25 Users	1,202/1,983/2,612
NetWare for Mac v3.12 200 Users	746
Branch Link Router/Enterprise Router	712/1,966
NetWare NFS/Gateway Bundle	2,909
NetWare NFS Service for NW4.1	2,237

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cc:Mail License 10 users/50 Users	598/2,804
Mobile for DOS/MAC	150/150
Router/Fax Server/Web (Single)	95/1,459/189
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MICROSOFT PC Mail Server + 10 Users	485
PC Mail 5/20/100 Users	273/930/3,633
MHS Gateway/PROFS	708/3,405
SMTP/X400/Fax Gateway	3,241/3,194/1,419

Network Utilities

SYMANTEC Anti-Virus for NetWare 10/25	605/1,378
CHEYENNE InocuLAN Wrkgrp/1Svr-Unlimited	269/650
InocuLAN 5 Svr-Unlimited Users	2,534
InocuLAN Option v4.0 for ARCserve 6	334
FRYE Early Warning System or Lan Directory	350
INTEL LanDesk Virus Protect (Single)	691
LanDesk Virus Protect 4-pk/20-pk	2,077/6,750
ONTRACK Data Recovery NetWare	214
SEAGATE Prepare! Disaster Recovery SW	573
SYMANTEC Norton Admin. 5/10 Users	247/438
Norton Admin. 25/50/100 Users	1,068/2,028/3 680

ARTISOFT Peer-to-Peer Networking

ARTISOFT LANtastic 7.0 Network Starter Kit	260
LANtastic 7.0 Software Single/10 User/Unlim.	99/377/740
Power Suite Starter Kit 2 Users	412

Server Mirroring

VINCA Campus Standby Server Software	2,411
Standby Server NetWare/Windows NT	2,813/2,813
Entry Level StandBy Server	1,062

Windows NT Solutions

3COM Transcend Workgroup Mgr for NT	463
Transcend Enterprise Manager	2,353
CHEYENNE Arcserve for Windows NT v6.0, Single Svr.	490
Arcserve for Windows NT v6.0, Enterprise Edition	860
Arcserve for NT NetWare Agent	438
CONNER MS4000 4GB EXT w/ Backup Exec NT	567
MS8000 8GB w/Backup Exec NT Int/Ext	659/790
Backup Exec for Windows NT NetWare Agent	492
INTEL Landesk Workgroup Mgr 25/250 nodes	695/5,765
MICROSOFT Windows NT Workstation	317
Windows NT Server w/5/10 Clients	812/1,128
SMS System Mgmt Server w/5 clients	943
Exchange Server Single w/ 5/10/25	1,014/1,368/2,160
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Politicards '96, a politically-oriented electronic card game, features animated sequences and humorous sound bites with many of the fifty-four famous political personalities satirized in this deck of playing cards. It includes twenty-one popular solitare games, each with three levels of difficulty and enhanced game controls. It runs on Macintosh, Power Macintosh (MacOS 6.0.7 or higher), Windows 3.1, and Windows 95. ($24.95, a deck of playing card is also available for $5.95) Masque Publishing, Inc., P.O. Box 5223, Englewood, CO 80155. (303)290-9853, 1-800-644-2665.

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21+ SOLITAIRE GAMES
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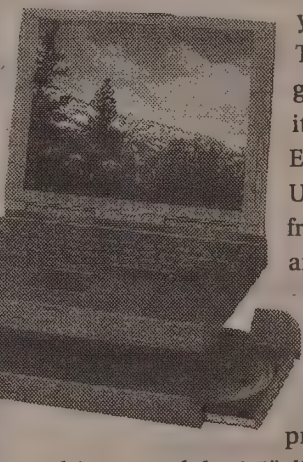
CyberSound VS

CyberSound VS (Virtual Synthesizer) enables you PowerPC Macintosh to perform like a musical instrument and music composition tool. It includes more than 500 high-quality sounds with built-in digital effects and an integrated sequencer. No additional hardware is needed, so CyberSound VS and a PowerBook can serve as the heart of a traveling studio. It is fully MIDI-compatible and optimized for real-time performance. A control panel allows you to select instruments and configure custom set-ups, while its proprietary Intelligent Scaling technology dynamically reduces CPU load when necessary. ($249.95) InVision Interactive, 2445 Faber Pl., Ste. 102, Palo Alto, CA 94303. (415)812-7380. URL: *http://www.cybersound.com/* .

Notebooks

WinBird PC Notebook

Sotec America, Inc., has announced the WinBird Notebook, the first Sotec notebook officially made available in the U.S. market after many years of overseas sales. The notebook offers high-grade network connectivity and a 10Base-T Ethernet port via a "Base Unit" which is detachable from the main notebook, an internal 28.8Kbps fax/modem, and an infrared port. In addition, the WinBird uses a 133MHz Pentium processor, a 6X CD-ROM drive, a modular 3.5" diskette drive, and features a 1.08 GB hard drive and 11.3" active matrix display. Suggested retail price: $4,150. Sotec America, Inc., 75 Nicholson Lane, San Jose, CA 95134-1366. (408)232-0888.



PC Software

Equilibrium DeBabelizer

Equilibrium has announced a Windows version of its popular Mac-based automated graphics processing software. DeBabelizer is designed to automatically prepare images, animations and digital video for high-quality cross-platform transfer through file-format conversion, batch processing, color palette reduction, image processing and scripting. Suggested retail price: $595. Equilibrium, Three Harbor Drive, Ste. 111, Sausalito, CA 94965. 1-800-524-8651. ■

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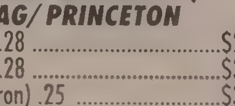

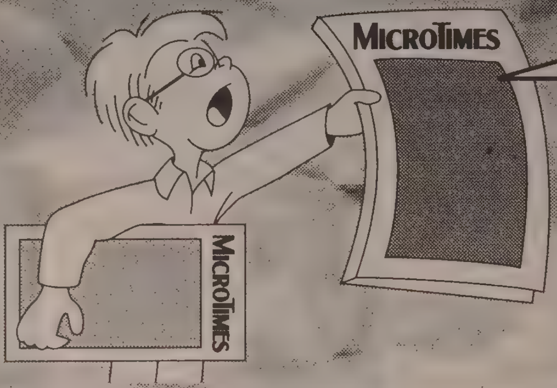

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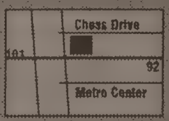

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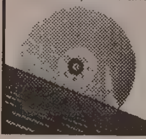

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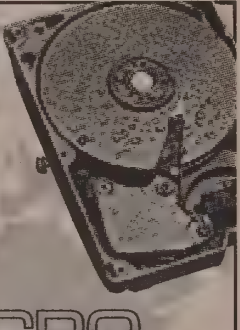

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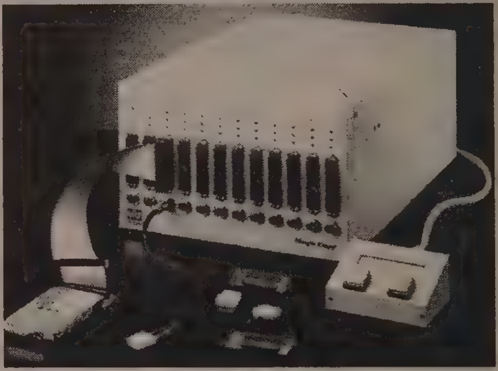

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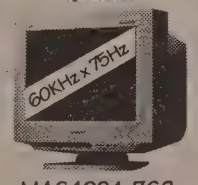

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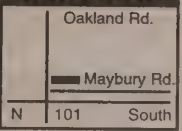

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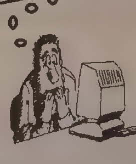

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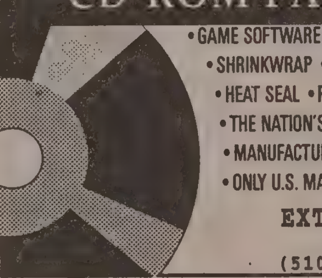

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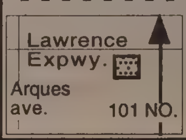

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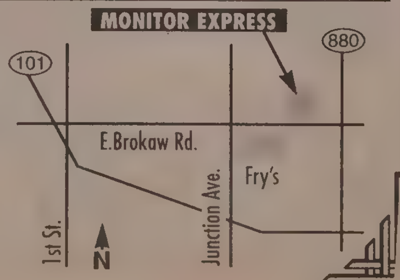

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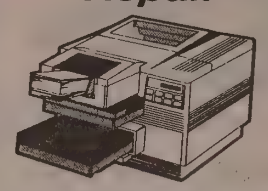

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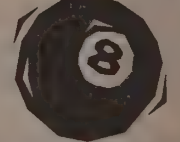

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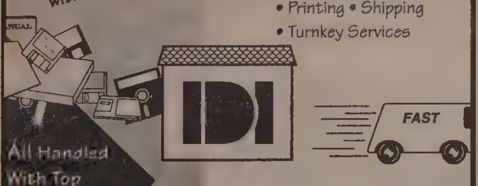

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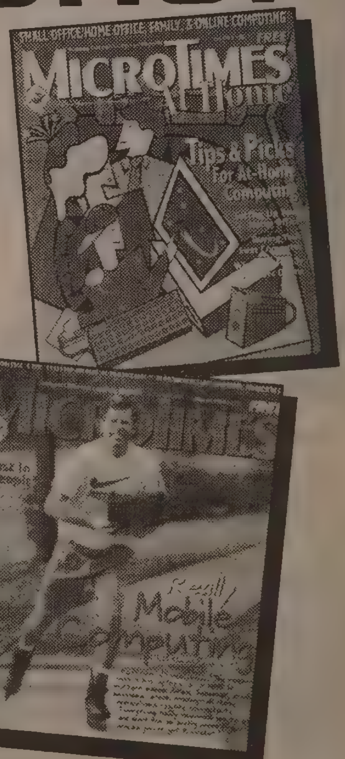
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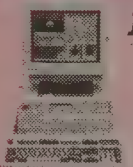

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Online Guide

Web Page Listings

continued from page 192

mance.org/ Presenting "VD 2001," one of the Internet's first cyberperformances. "Virtual theatre performances." [Exp. #156.]

Official Hexen Fanclub *http://www.geocities.com/TimesSquare/1863/index.html* The only officially recognized fanclub of any id/Raven game. Membership is free. [Exp. #158.]

OnVideo *http://www.cyberpod.com/cyberpod/onvideo.htm* A complete home video guide to current and forthcoming movies released on tape. Includes consumer news, sell-through calendar, and links to studios. [Exp. #158.]

Orange County's Cyber DiningGuide *http://www.onlineguide. com* Tired of just listings? Get real information with hundreds of menus. Order food online, search interactive maps...even submit a review! [Exp. #156.]

Popcorn *http://members.tripod.com/~AmyDo/Index.htm* Movie reviews and news for the next generation. Find the latest in celebrity gossip. [Exp. #158.]

Preview Travel *http://www.reservations.com* This new site showcases the company's upgraded airline ticketing service, including easy-to-navigate screens to book tickets based on your preferences. [Exp. #158.]

Restaurant Guide *http://www.cyber-view.com/cyberdine.shtml* Become a free member and receive discounts at some of over 300,000 nationwide restaurants listed in our database. [Exp. #158.]

SeaView Submersibles, Ltd. *http://www.seaview-subs.com* Operation of tourist submarines and underwater restaurants. [Exp. #158.]

Sequoia Yacht Club *http://www.gdserv.com:80/hps/syc/* In Redwood City, CA, lists activities for sail and power boaters, plus links to other sites. [Exp. #158.]

Sesha Press Records *http://www.sesha.com* Spooky music samples, haunting photos, cool art, and more. [Exp. #158.]

Slam And Scream Office Stories Page *http://www.io.com/~slam/* New site for administrative assistants, secretaries, and other office "underlings." [Exp. #158.]

So. California Band Listing *http://www.geocities.com/SunsetStrip/6643* Local band listing covering Southern California. [Exp. #156.]

Stale *http://www.stale.com* Parody on Microsoft's Slate magazine. [Exp. #158.]

STM Entertainment *http://www.primenet.com/~stm-moon/stmjs.html* John Stamos Link. Autographs, pictures, and the latest information. [Exp. #156.]

Takeout Restaurants *http://www.best.com/~moricz/* List of restaurants who deliver in your area code. [Exp. #158.]

USS Galaxy *http://users.aol.com/captprice/galaxy/index.htm* Email roleplaying game. Interactive story telling set in the TNG timeline. [Exp. #157.]

Video Starbox *http://home.earthlink.net/~videostarbox* Beautiful people. Opportunities and information. Music and music videos. Multicultural. Tasteful. Fun. Additional Links. [Exp. #156.]

Warner Bros. Online *http://www.warnerbros.com* A behind-the-scenes look at the studio and its vast entertainment programming. [Exp. #156.]

ADULT ENTERTAINMENT

A2XXX *http://www.psychonet.com/a2xxx* Adult photos and fun from A to XXX. The Web's prettiest women in sexy photos. [Exp. #157.]

AbasiaNet *http://home.sprynet.com/sprynet/adult/spryvs.htm* Live uncensored PC video conferencing with sexy women. Download free software. [Exp. #158.]

Adult CD-ROMs! *http://www.romdezvous.com/* The hottest adult interactive CD-ROM games, movies, and videos available. Free catalog. [Exp. #157.]

Adult Gallery *http://www.adultgallery.com* Free adult Web site includes hundreds of pictures. [Exp. #158.]

Bare Bodies *http://www.webcom.com/barebod/* Adult Web site: $1.95/month to access pics updated monthly. [Exp. #158.]

Cyber Studios International *http://www.sexlive.com* Live nude shows in the privacy of your home! Beautiful girls and free software. [Exp. #157.]

Date Mall *http://www.datemall.com* Free online dating service. Meet someone special today by establishing your presence in cyberspace. [Exp. #158.]

HEAT Productions *http://204.181.154.146/* Thousands of hot XXX graphics files. Guaranteed to turn you on. Excitement you will never forget. Adults only! [Exp. #156.]

Hotel Erotica *http://www.hotelerotica.com* Adults only, live shows, photos, videoclips, free conferencing, and more. [Exp. #158.]

Lips Of The Net *http://www.lipsnet.com* How to pick up women in the '90s, photo gallery, nudity, news, and reviews. [Exp. #158.]

Live! Live! *http://www.hotvisions.com* Real-time live sexy, beautiful girls: one-on-one, group, and other favorites. [Exp. #158.]

The Pleasure Guide *http://www.pleasureguide.com* The best in adult online entertainment. Live chat, personals, reviews, tons of images, and more! [Exp. #157.]

SexPicNet *http://SexPicNet.com* Thousands of XX graphic files, organized, catalogued, graded, free samples. Adults only. [Exp. #156.]

SLJ Communications *http://www.4impact.com/hott* Live and uncensored real-time video and audio. See, hear, and speak to hot girls. Download free software. [Exp. #156.]

Tricia's Torrid Tales *http://www.tricia.com* [Exp. #158.]

XPics *http://www.xpics.com* Adult site of the day; a new, free adult site every day. [Exp. #158.]

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HI-TECH SUPER POWER *Multimedia Systems* (16MB/2.0GB/8X CD)

PP-200 ONLY $1,978

- **16MB EDO RAM** (32MB/64MB: +$Call)
- **2.0GB EIDE**
- Matrox Millennium 2MB WRAM
- **8X CD-ROM**
- Creative Sound Blaster 32 PNP
- High Performance 120W Speakers
- TEAC 1.44MB 3.5" Floppy Drive
- Mid Tower Case with Power Supply
- Keytronics Keyboard for Windows 95
- Microsoft Mouse with Pad
- Free Microsoft Windows 95
- **Free Microsoft Encarta, Works, Money and Bundle CD**
- Monitor Sold Separately

P5-75/256K PCI (Intel Marl) ATX	$1,278
P5-100/256K PCI (Intel Marl) ATX	$1,308
P5-120/256K PCI (Intel Marl) ATX	$1,328
P5-133/256K PCI (Intel Marl) ATX	$1,378
P5-150/256K PCI (Intel Marl) ATX	$1,438
P5-166/256K PCI (Intel Marl) ATX	$1,558
P5-200/256K PCI (Intel Marl) ATX	$1,768
PP-200 PCI (Intel Venus) ATX	$1,948
PP-200 PCI (Asus)	$1,978
PP-200 PCI (Super Micro)	$1,948
Dual PP-200 PCI (Super Micro)	$2,708

UPGRADES

See Page 3 of Our Ad for All Upgrade Prices

- 33.6 Internal Fax Modem ....Add 78
- Colorado Tape Backup T-1000.Add 118
- MAG 1595 Monitor.................Add 323
- Sony 17SFII Monitor...............Add 714
- Viewsonic P810 21"Monitor.Add 1,516
- Microsoft Office Pro (OEM) .....Add 188
- Microsoft Windows NT 3.51 (CD) Workstation/Server ......Add $148/438

HI-TECH PROFESSIONAL *Multimedia Systems* (16MB/1.2GB/8X CD)

P5-166 ONLY $1,318

- **16MB EDO RAM** (32MB/64MB: +$Call)
- **1.2GB EIDE** (1.6GB/2.0GB:+$30/$60)
- PCI IDE with I/O
- Diamond Stealth or ATI PCI 2MB
- **8X CD-ROM**
- 16-Bit Sound Card & 80W Speakers
- TEAC 1.44MB 3.5" Floppy Drive
- Mid Tower Case with Power Supply
- Keytronics Keyboard for Windows 95
- Microsoft Mouse with Pad
- Free Microsoft Windows 95
- **Free Microsoft Encarta, Works, Money and Bundle CD**
- Monitor Sold Separately

P5-75/256K PCI (Intel Endeavor)	$988
P5-100/256K PCI (Intel Endeavor)	$1,018
P5-120/256K PCI (Intel Endeavor)	$1,038
P5-133/256K PCI (Intel Endeavor)	$1,088
P5-150/256K PCI (Intel Endeavor)	$1,178
P5-166/256K PCI (Intel Endeavor)	$1,298
P5-75/256K PCI (Intel Atlantis)	$1,028
P5-100/256K PCI (Intel Atlantis)	$1,058
P5-120/256K PCI (Intel Atlantis)	$1,088
P5-133/256K PCI (Intel Atlantis)	$1,128
P5-150/256K PCI (Intel Atlantis)	$1,198
P5-166/256K PCI (Intel Atlantis)	$1,318
P5-75/256K PCI (Intel Marl) ATX	$1,038
P5-100/256K PCI (Intel Marl) ATX	$1,068
P5-120/256K PCI (Intel Marl) ATX	$1,088
P5-133/256K PCI (Intel Marl) ATX	$1,138
P5-150/256K PCI (Intel Marl) ATX	$1,198
P5-166/256K PCI (Intel Marl) ATX	$1,318

UPGRADES

See Page 3 of Our Ad for All Upgrade Prices

HI-TECH HOME *Multimedia Systems* (16MB/850MB/6X CD)

P5-166 ONLY $1,148

- **16MB RAM** (32MB/64MB: Add $Call)
- **850MB EIDE** (1.2GB/1.6GB:+$40/$70)
- VLB or PCI IDE with I/O
- Diamond Stealth or ATI w/1MB
- **6X CD-ROM** (8X: Add $20)
- 16-Bit Sound Card & 80W Speakers
- TEAC 1.44MB 3.5" Floppy Drive
- Mid Tower Case with Power Supply
- Keytronics Keyboard for Windows 95
- Microsoft Compatible Mouse with Pad
- Free Microsoft Windows 95
- **Free Microsoft Encarta, Works, Money and Bundle CD**
- Monitor Sold Separately

486DX2-80/256K VLB or PCI	$748
5X86-133/256K VLB or PCI	$768
6X86-P120+/256K PCI	$868
6X86-P133+/256K PCI	$878
6X86-P150+/256K PCI	$898
6X86-P166+/256K PCI	$958
P5-75/256K PCI (Triton VX)*	$868
P5-100/256K PCI (Triton VX)*	$898
P5-120/256K PCI (Triton VX)*	$918
P5-133/256K PCI (Triton VX)*	$968
P5-150/256K PCI (Triton VX)*	$1,028
P5-166/256K PCI (Triton VX)*	$1,148
* Intel Endeavor/Atlantis M/B	+$60/70
* Intel Marl Motherboard ATX	+$100

UPGRADES

See Page 3 of Our Ad for All Upgrade Prices

- 33.6 Internal Fax Modem ....Add 78
- Microsoft Office Pro (OEM) .....Add 188
- Microsoft Windows NT 3.51 (CD) Workstation/Server ......Add $148/438

HI-TECH DELUXE *Multimedia Systems* (8MB/540MB/6X CD)

486DX2-80 ONLY $558

- Motherboard with CPU
- **8MB RAM** (16MB/32MB: Add $Call)
- **540MB EIDE** (850MB/1.2GB:+$20/$50)
- VLB or PCI IDE with I/O
- VLB or PCI SVGA Card w/1MB
- **6X CD-ROM** (8X: Add $20)
- 16-Bit Sound Card & Speakers
- TEAC 1.44MB 3.5" Floppy Drive
- Enhanced Case with Power Supply
- Mitsumi Keyboard for Windows 95
- Microsoft Compatible Mouse with Pad
- Free PC DOS and Microsoft Windows
- **Free CD Deluxe Pack**
- Monitor Sold Separately

486DX2-80/256K VLB or PCI	$558
5X86-133/256K VLB OR PCI	$578
6X86-P120+/256K PCI	$678
6X86-P133+/256K PCI	$688
6X86-P150+/256K PCI	$708
6X86-P166+/256K PCI	$768
P5-75/256K PCI (Triton VX)*	$678
P5-100/256K PCI (Triton VX)*	$708
P5-120/256K PCI (Triton VX)*	$728
P5-133/256K PCI (Triton VX)*	$778
P5-150/256K PCI (Triton VX)*	$838
P5-166/256K PCI (Triton VX)*	$958
* Intel Endeavor/Atlantis M/B	+$60/70
* Intel Marl Motherboard ATX	+$100

UPGRADES

See Page 3 of Our Ad for All Upgrade Prices

- Microsoft Windows 95 Full Copy...Add 50
- 33.6 Internal Fax Modem ....Add 78
- Colorado Tape Backup T-1000.Add 118
- Microsoft Office Pro (OEM) .....Add 188

Why do customers keep buying from HI-TECH USA? Simply because we deliver the best value.

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			SEE PAGES 3 & 4 OF OUR AD FOR ALL OF OUR UPGRADE PRICES							
DUAL PP-200C PCI (SUPER MICRO M/B)	$438	$1648	N/A	$1828	$1888	$1978	N/A	$1998	$2098	$2208
PP-200C PCI (SUPER MICRO M/B)	298	938	N/A	1118	1178	1268	N/A	1288	1388	1498
PP-200C PCI (INTEL VENUS M/B) ATX	268	918	N/A	1138	1198	1288	N/A	1308	1408	1518
P5-166C PCI (INTEL MARL M/B) ATX	154	548	N/A	768	828	918	N/A	938	1038	1148
P5-150C PCI (INTEL MARL M/B) ATX	154	428	N/A	648	708	798	N/A	818	918	1028
P5-133C PCI (INTEL MARL M/B) ATX	154	358	N/A	578	638	728	N/A	748	848	958
P5-120C PCI (INTEL MARL M/B) ATX	154	308	N/A	528	588	678	N/A	698	798	908
P5-166C PCI (INTEL ATLANTIS M/B)**	222	598	$738	758	818	908	$898	898	998	1108
P5-150C PCI (INTEL ATLANTIS M/B)**	222	488	628	648	708	798	788	788	888	998
P5-133C PCI (INTEL ATLANTIS M/B)**	222	418	558	578	638	728	718	718	818	928
P5-120C PCI (INTEL ATLANTIS M/B)**	222	378	518	538	598	688	678	678	778	888
P5-100C PCI (INTEL ATLANTIS M/B)**	222	348	488	508	568	658	648	648	748	858
P5-166C PCI (INTEL ENDEAVOR M/B)**	182	568	708	728	788	878	868	898	998	1108
P5-150C PCI (INTEL ENDEAVOR M/B)**	182	448	588	608	668	758	748	778	878	988
P5-133C PCI (INTEL ENDEAVOR M/B)**	152	358	498	518	578	668	658	688	788	898
P5-120C PCI (INTEL ENDEAVOR M/B)**	152	298	438	458	518	608	598	628	728	838
P5-100C PCI (INTEL ENDEAVOR M/B)**	152	278	418	438	498	588	578	608	708	818
P5-166C PCI (INTEL ENDEAVOR II M/B)**	142	528	668	688	748	838	828	858	958	1068
P5-150C PCI (INTEL ENDEAVOR II M/B)**	142	408	548	568	628	718	708	738	838	948
P5-133C PCI (INTEL ENDEAVOR II M/B)**	142	338	478	498	558	648	638	668	768	878
P5-120C PCI (INTEL ENDEAVOR II M/B)**	142	288	428	448	508	598	588	618	718	828
P5-100C PCI (INTEL ENDEAVOR II M/B)**	142	268	408	428	488	578	568	598	698	808
P5-133/256C PCI (INTEL ZAPPA M/B)	128	328	468	488	548	638	628	658	758	868
P5-120/256C PCI (INTEL ZAPPA M/B)	128	288	428	448	508	598	588	618	718	828
P5-100/256C PCI (INTEL ZAPPA M/B)	128	268	408	428	488	578	568	598	698	808
P5-75/256C PCI (INTEL ZAPPA M/B)	108	218	358	378	438	528	518	548	648	758
P5-166C PCI**	88	478	608	628	688	778	768	798	898	1008
P5-150C PCI**	88	358	488	508	568	658	648	678	778	888
P5-133C PCI**	88	288	418	438	498	588	578	608	708	818
P5-120C PCI**	88	248	378	398	458	548	538	568	668	778
P5-100C PCI**	88	218	348	368	428	518	508	538	638	748
P5-75C PCI**	88	188	318	338	398	488	478	508	608	718
6X86-P166+/256K PCI	118	298	428	448	508	598	588	618	718	828
6X86-P150+/256K PCI	118	238	368	388	448	538	528	558	658	768
6X86-P133+/256K PCI	118	228	358	378	438	528	518	548	648	758
5X86-133/256C VLB (PCI: ADD $15)	64	94	224	244	304	394	384	414	514	624
486DX2-80/256C VLB (PCI: ADD $15)	64	78	208	228	288	378	368	398	498	608

HI-TECH BEST BUY SYSTEMS

- **8MB RAM** (16MB/32MB: Add $Call)
- **540MB EIDE** (850MB/1.2GB: Add $20/$50)
- 1.44MB 3.5" Floppy Drive
- PCI or VLB Controller with I/O
- Enhanced Case w/Power Supply
- PCI or VLB SVGA Card w/1MB
- Mitsumi Keyboard for Windows 95
- Free PC DOS and Mouse w/pad
- Monitor Sold Separately

486DX2-80/256K VLB or PCI	$408
5X86-133/256K VLB OR PCI	428
6X86-P120+/256K PCI	528
6X86-P133+/256K PCI	538
6X86-P150+/256K PCI	558
6X86-P166+/256K PCI	618
P5-75/256K PCI (Triton VX)*	528
P5-100/256K PCI (Triton VX)*	558
P5-120/256K PCI (Triton VX)*	578
P5-133/256K PCI (Triton VX)*	628
P5-150/256K PCI (Triton VX)*	688
P5-166/256K PCI (Triton VX)*	808
* Intel Endeavor/Atlantis M/B	+$90/100
* Intel Marl Motherboard ATX	+$100

UPGRADES

See Next Page for All of Our Upgrade Prices

- Microsoft Windows 95 Full Copy..........Add $75
- 33.6 Internal Fax Modem..........Add 78

HI-TECH DREAM SYSTEMS

- **16MB RAM** (32MB/64MB: Add $Call)
- **1.2GB EIDE** (1.6GB/2.0GB: Add $30/$60)
- TEAC 1.44MB 3.5" Floppy Drive
- VLB or PCI IDE Controller with I/O
- Diamond Stealth or ATI PCI with 1MB
- Mitsumi Keyboard for Windows 95
- Enhanced Case w/Power Supply
- Free PC DOS and Mouse w/Pad
- Monitor Sold Separately

486DX2-80/256K VLB or PCI	$538
5X86-133/256K VLB OR PCI	558
6X86-P120+/256K PCI	658
6X86-P133+/256K PCI	668
6X86-P150+/256K PCI	688
6X86-P166+/256K PCI	748
P5-75/256K PCI (Triton VX)*	658
P5-100/256K PCI (Triton VX)*	688
P5-120/256K PCI (Triton VX)*	708
P5-133/256K PCI (Triton VX)*	758
P5-150/256K PCI (Triton VX)*	818
P5-166/256K PCI (Triton VX)*	938
* Intel Endeavor/Atlantis M/B	+$90/100
* Intel Marl Motherboard ATX	+$100

UPGRADES

See Next Page for All of Our Upgrade Prices

- Microsoft Windows 95 Full Copy..........Add $75
- 33.6 Internal Fax Modem..........Add 78

HI-TECH SUPER P5 SYSTEMS

- **16MB EDO RAM** (32MB/64MB: Add $Call)
- **1.2GB EIDE** (1.6GB/2.0GB: Add $30/$60)
- TEAC 1.44MB 3.5" Floppy Drive
- PCI IDE Controller with I/O
- Diamond Stealth or ATI PCI w/2MB
- Mitsumi Keyboard for Windows 95
- Medium Tower Case w/Power Supply
- Free Microsoft Windows 95
- Free Microsoft Mouse with Pad
- Monitor Sold Separately

P5-75/256K PCI (Intel Endeavor)	$798
P5-100/256K PCI (Intel Endeavor)	828
P5-120/256K PCI (Intel Endeavor)	858
P5-133/256K PCI (Intel Endeavor)	898
P5-150/256K PCI (Intel Endeavor)	998
P5-166/256K PCI (Intel Endeavor)	1,118
P5-75/256K PCI (Intel Atlantis)	828
P5-100/256K PCI (Intel Atlantis)	858
P5-120/256K PCI (Intel Atlantis)	878
P5-133/256K PCI (Intel Atlantis)	928
P5-150/256K PCI (Intel Atlantis)	1,008
P5-166/256K PCI (Intel Atlantis)	1,128

UPGRADES

See Next Page for All of Our Upgrade Prices

- Microsoft Windows 95 Full Copy..........Add $75
- 33.6 Internal Fax Modem..........Add 78
- Microsoft Windows NT 3.51 (CD) Workstation / Server..........Add $148 / 438

HI-TECH POWER SYSTEMS

- Intel Processor with Fan
- **32MB EDO RAM** (64MB: Add $Call)
- **2.0GB EIDE**
- TEAC 1.44MB 3.5" Floppy Drive
- PCI IDE Controller with I/O
- Matrox Millennium PCI w/2MB
- Keytronics Keyboard for Windows 95
- Medium Tower Case or w/Power Supply
- Free Microsoft Windows 95
- Free Microsoft Mouse with Pad
- Monitor Sold Separately

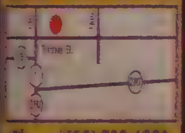
P5-75/256K PCI (Intel Marl) ATX	$1,098
P5-100/256K PCI (Intel Marl) ATX	1,138
P5-120/256K PCI (Intel Marl) ATX	1,158
P5-133/256K PCI (Intel Marl) ATX	1,208
P5-150/256K PCI (Intel Marl) ATX	1,268
P5-166/256K PCI (Intel Marl) ATX	[illegible]
PP-200 PCI (Intel Venus) ATX	1,768
PP-200 PCI (Asus)	1,798
PP-200 PCI (Super Micro)	1,768
Dual PP-200 PCI (Super Micro)	2,518

UPGRADES

See Next Page for All of Our Upgrade Prices

- Microsoft Windows 95 Full Copy..........Add $75
- 33.6 Internal Fax Modem..........Add 78
- Colorado Tape Backup T-1000..........Add 118
- Microsoft Windows NT 3.51 (CD) Workstation / Server..........Add $148 / 438

SAN FRANCISCO



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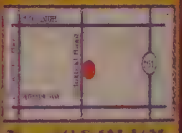
PENINSULA



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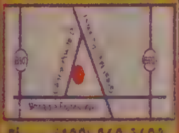
MILPITAS



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9:30am-7pm (Sunnyvale)
Sat: 10am-4pm

SERVICE HOURS
Mon-Fri: 9am-5:30pm
Sat: 10am-3:30pm
(Milpitas [illegible])

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TERMS AND CONDITIONS

1. One year parts and labor warranty on systems.
2. Knowledgeable technical support engineers in service.
3. Prices and availability subject to change w/o notice.
4. Shipping, insurance and COD charges are extra and non-refundable. Prices reflect cash discounts.
5. Return shipping must be insured, prepaid and bearing an RMA# on the shipping label.
6. Defective items replaced or repaired at our discretion.
7. No responsible for typos.
8. All returns subject to 15% restocking fee and cover only Hi-Tech USA brand computers, excludes peripherals and software. No refunds after 30 days.
9. Superior reputation for service, quality and value
10. Purchase orders are welcomed and subject to approval.

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(408) 732-8688 .... Sunnyvale
(415) 508-8688 .... San Carlos
(415) 753-6888 .... San Francisco

CASE W/POWER SUPPLY

230W / 250W / 300W Power Supply	$17 / 25 / 40
Mini Tower Case w/200W Power Supply	**31**
Desktop AT Case w/200W Power Supply	36
Medium Tower Case w/230W Power Supply	41
Full Tower Case w/250W Power Supply	57

CONTROLLERS

IDE 2FD/2HD with 2S/1P/1G	**$10**
VLB IDE with I/O	**12**
VLB IDE I/O (2S/1P) w/16550 UART Chip	**14**

adaptec

1522 / 1542 CF (SCSI)	$69 / 126
1542CP / 1542CPK (SCSI)	156 / 222
2825 VLB / 2842 VLB (SCSI)	78 / 156
2940 PCI / 2940UW PCI (SCSI)	166 / 198
2940UWK PCI (SCSI)	238

DATA TECHNOLOGY CORPORATION

DTC 2280D / 2280E ISA	$14/20
DTC 2278E VLB IDE W/16550 UART Chip	24
DTC 2278D VLB IDE I/O Dual Ports	18

PROMISE TECHNOLOGY, INC.

Promise DC-2300 Plus VLB IDE Fast I/O	$43
Promise DC-4030 VLB IDE Cache Controller	**77**
Promise DC-4030+ VLB EIDE	**108**
Promise DC-5030 PCI IDE 0-16MB Cache	**114**

HARD/FLOPPY DRIVES

Quantum™ Maxtor® Seagate MICROPOLIS CONNER WESTERN DIGITAL

HARD DRIVES	
540MB IDE / 635MB IDE	**$114 / 119**
850MB IDE / 1.0GB IDE	**124 / 152**
1.2GB IDE / 1.6GB IDE	**164 / 188**
2.0GB IDE	**226**
520MB / 1.0GB SCSI	138 / 244
2.0GB / 4.0GB SCSI	**334 / 764**
FLOPPY DRIVES	
Epson, SONY or NEC 1.2 / 1.44 FDD	**$36 / 21**
Epson/Teac Dual Floppy Drive	**75 / 79**
Teac 1.2 /1.44 Floppy Drive	37 / 23
IOMEGA	
Ditto Easy 800 Insider	118
Ditto Easy 800 Parallel	158
Ditto 3200 Insider w/Cartridge	238
Ditto 800/3200 Cartridge	35 / 40
Jazz SCSI Drive 1.0GB Insider	378
Jazz SCSI Drive 1.0GB External	468
Jazz SCSI Drive Cartridge	104
Zip Drive 100MB External Parallel	182
Zip Drive 100MB External SCSI	188
Zip Drive 100MB Cartridge	17
ZIP DRIVES (Epson)	
100MB External Parallel	**$178**
100MB External SCSI	**178**

KEYBOARDS

101 Enhanced Keyboard for Windows 95	$12
FOCUS	
FK2001 101-Key Click for Windows '95	**25**
FK6200W 104-Key for Windows '95	**23**
FK7200W w/Trackball	30
FK8000 w/Calculator	32
FK9000 Programmable w/Calculator	38
Keytronics 104-Key for Windows 95	**17**
Mitsumi 104-Key for Windows 95	**12**
Maxiswitch 101-Key Enhanced	**19**
Maxiswitch Nova PS/2	**19**
Maxiswitch Pro II 124 Key Programmable	41
Microsoft Natural Key (w/System)	**56**

MEMORY & CPU

LONG DIMM	
8MB / 16MB / 32MB (5V)	**$52 / 88 / 188**
8MB / 16MB / 32MB (3V)	**$68 / 108 / 210**
SIMM	
1MB / 4MB (30 Pin)	**8 / 23**
4MB/8MB (72-Pin)	**20 / 38**
16MB / 32MB (72-Pin)	**98/ 198**
4MB/8MB (EDO)	**21 / 40**
16MB / 32MB (EDO)	**98 / 198**
Simm Converter (30-pin to 72-pin)	**8**
CPU	
486DX2-80	**20**
5X86-133	**40**
6X86 P-120+	**104**
6X86 P-133+	**118**
6X86 P-150+	**138**
6X86 P-166+	**198**
Intel P5-75 / 100 / 120	**105 / 138 / 160**
Intel P5-133 / 150 /166	**206 / 276 / 394**
Intel P5-200	**608**
Intel Pentium Pro-200	**648**

MODEMS & FAXES

Fax Modem 14,400 Internal	**$27**
Fax Modem 14,400 w/Voice Internal	**29**
Fax Modem 14,400 w/Voice External	40
Fax Modem 28.8 with V.34 Int.	**70**
Fax Modem 28.8 w/Voice Int.	**85**
Fax Modem 28.8 with V.34 Ext	90
Fax Modem 33.6 with V.34 Int	78
Fax Modem 33.6 with Voice Int	90
Fax Modem 33.6 with Voice Ext	98
PCMCIA Fax Modem 28.8 Data w/V.34	128
PCMCIA Fax Modem 33.6 Data w/V.34	138
HAYES	
Accura 14.400 Int/Ext	**$77 / 92**
Accura 28.8 w/V.34 Int/Ext	**144 / 160**
Optima 28.8 w/V.34 Int/Ext	**348 / 362**
PRACTICAL PERIPHERALS	
14.400 Fax Modem Int/Ext	**63 / 78**
28.8 w/V.34 Fax Modem Int/Ext	**133 / 148**
SUPRA 28.8 Fax Modem w/V.34 Int/Ext	**90/132**
SUPRA 33.6 Fax Modem w/Voice Int	**96**
US ROBOTICS	
Sportster 14,400 FM Int / Ext Si	**$39 / 59**
Sportster 14,400 FM Int / Ext (Classic)	**86/101**
Sportster 28.8 (33.6 Data) Winmodem Int	**96**
Sportster 28.8 (33.6 Data) Fax Modem w/V.34 Int	**130**
Sportster 28.8 (33.6 Data) Fax Modem w/V.34 Ext	146
Sportster 28.8 (33.6 Data) Fax Modem w/Voice Int	**140**
Sportster 28.8 (33.6 Data) Fax Modem w/Voice Ext	172
Sportser PCMCIA 28.8 w/V.34	266
Sportster ISDN 128K Int	368

MONITORS*

14" Mono	**$72**
14" VGA Mono	83
14" SGA 1024•768 .28 NI	**202**
15" SVGA 1024•768 .28	254
17" SVGA 1280•1024 .28	**488**

CTX

14" Super VGA 1024•768 .28 NI	$222
15" Super VGA 1024•768 .28	**315**
17" Super VGA 1280•1024 .28	568

IIYama (IDEK)

MF-8515 15" 1280•1024 .28	$366
MF-8617E 17" 1600•1200 .26	666
MF-9017E 17" 1600•1200 .25	726
MF-8221E 21" 1600•1200 .30	1,434
MF-9021E 21" 1600•1200 .30	1,526

Impression

14" 1024•768 .28 NI	$204
15" 1280•1024 .28 NI	274
17" 1280•1024 .28 NI	498

MAG INNOVISION

1595 15" 1280•1024 .28 (New Model)	**$323**
1795 17" 1280•1024 .26 (New Model)	**555**
DX15T 15" .25 Trinitron OSD Win 95	**358**
DX17T 17" .25 Trinitron OSD Win 95	**644**
MXP17F 17" 1600•1280 .26	**692**

NANAO®

F2-17 .28 / F2-17EX .26	778 / 888
T2-17TS .25 / T2-17 .25	864 / 924
T2-20 .30 / F2-21 .30	1,698 / 1,718

NEC

C500 / M500 / XV 15+	$380 / 484 / 454
M700 / XV 17+ / XP 17	758 / 758 / 996
XE 21 / XP 21	1,624 / 1,878

NOKIA

449E 15" 1280•1024 .28	$424
447L 17" 1280•1024 .28	658
445X 21" 1600•1280 .28	1,798

SONY

15SF II 15" 1280•1024 .25	**$434**
17SFII 17" 1280•1024 .25	**714**
20SFII 20" 1280•1024 .30	1,542

ViewSonic®

14ES 14" 1024•768 .28	**$244**
15ES 15" 1024•768 .28	**316**
15G 15" 1280•1024 .28 60MHz	353
15GS 15" 1280•1024 .28	356
15GA 15" 1280•1024 .27 w/Speakers	424
17EA 17" 1280•1024 .28 w/Speakers	586
17GS 17" 1280•1024 .28 Green	**568**
17GA 17" 1280•1024 .27 w/Speakers	**666**
GT770 17" 1280•1024 .25	652
PT770 17" 1600•1280 .25	756
17PS 17" 1600•1280 .25 Green	666
20G 20" 1600•1280 .28	1,064
21PS 21" 1600•1280 .25	**1,448**
GT800 20" 1600•1280 .30	**1,286**
P810 21" 1600•1280 .25	**1,516**
PT 810 21" 1600•1280 .30	**1,584**

*** Monitor Viewable size may be smaller than advertised size**

MOUSE

3-Button Mouse Microsoft Compatible	**$5**

LOGITECH

Mouseman Serial (OEM)	**20**
Mouseman Bus (Retail)	**62**
Trackman	78

Microsoft

Microsoft Mouse Serial (w/System)	**$23**

NETWORKS

16 BIT Ethernet Card ISA (Combo)	**$18**
16 BIT Ethernet Card PCI (Combo)	**34**

3Com

3C509 ELINK III TP	$57
3C509 ELINK III Combo	83
3C900 PCI TP (New)	83
3C900 PCI Combo (New)	112
3C905 TX PCI 100 Base-T (New)	110
3C589 PCMCIA TP / Combo	148 / 188
LinkBuilder 8 Port Hub	180
LinkBuilder FMSII 12 Port Hub	468
LinkBuilder 24 Port Hub	818

Hubs and Repeaters

5-Port Ethernet Hub	$48
9-Port Ethernet Hub	62
16-Port Ethernet Hub	122

PRINTERS

HEWLETT PACKARD

HP 400	**$208**
HP 680C	318
HP 820C	398
HP 855CSE	498
HP 5L	488
HP 5P	818

Fujitsu

DL 1250 (24-pin)	$148

PANASONIC

2023 (24-Pin)	$178
3123 (24-Pin)	248

TAPE BACKUPS

Conner 800MB Internal w/Tape	**$120**
Conner 8.0GB SCSI w/Tape	**348**

COLORADO MEMORY SYSTEMS

DJ-35 350MB Internal	**58**
T-1000 800MB Internal w/tape	**118**
T-1000E 800MB External w/tape	**162**
DJ-50 1.4GB Internal	**160**
Tape for 800MB	**30**

SOFTWARE

Microsoft Windows 95 Full Copy CD Version (w/system)	$85
Microsoft DOS 6.x (with System)	35
Microsoft Office Professional OEM CD Version (w/System)	188
Microsoft Windows 3.x (with System)	54
Microsoft Windows for Workgroup (with System)	60
Microsoft Windows NT 3.51 Server CD (with System)	438
Microsoft Windows NT 3.51 Workstation CD (with System)	148
Microsoft Windows NT 4.0 Server 5 Clients/10 Clients (with/System)	498 / 678
Microsoft Windows NT 4.0 Workstation (with Sys)	198

VGA CARDS

MGP Card	$10
VGA 512K	25
SVGA ISA w/1MB	**32**
Cirrus Logic PCI w/1MB	**29**
Trident VLB w/1MB	**32**
Trident PCI w/1MB	**29**

ATi TECHNOLOGIES INC

WinBoost PCI 1MB DRAM (Mach 64)	**$60**
WinBoost PCI 2MB DRAM (Mach 64)	**68**
WinTurbo 64 PCI 2MB VRAM (Mach 64)	**158**
WinTurbo 64 VLB 2MB VRAM (Mach 64)	**168**
WinTurbo 64 PCI 4MB VRAM (Mach 64)	**308**

DIAMOND

DTV 1100-TV Option Card (Retail)	**$95**
Edge 3D PCI 1MB (DRAM)	**114**
Edge 3D PCI 2MB (DRAM) Retail	**198**
Edge 3D PCI 2MB (VRAM) Retail	**318**
MPG Video Play 1100 (Retail)	**95**
Speedstar 64 PCI 1MB (DRAM)	**38**
Speedstar 64 PCI 2MB (DRAM)	**48**
Stealth SE PCI 1MB (DRAM)	**44**
Stealth 64 PCI 1MB (DRAM)	**59**
Stealth 64 VLB 1MB (DRAM)	**68**
Stealth 64 PCI 2MB (DRAM)	**69**
Stealth 64 Video PCI 2MB (VRAM)	**154**
Stealth 64 VLB 2MB (VRAM)	**168**
Stealth 64 Video PCI 4MB (VRAM)	**228**
Stealth 3D 2000 PCI 2MB	**108**
Viper-Pro PCI 4MB (VRAM) Retail	**218**

MATROX

Millennium PCI 2MB (WRAM) CD Version	178
Millennium PCI 4MB (WRAM) CD Version	248
Upgrade Memory Module (w/RAM) 2MB / 4MB / 8MB	88 / 168 / 228
Mystique PCI 2MB (SGRAM)	168
Mystique PCI 4MB (SGRAM)	228

Number 9

#9 FX Vision 331 PCI 1MB (DRAM)	$88
#9 FX Vision 331 PCI 2MB (DRAM)	98
#9 FX Motion 531 PCI 2MB (DRAM)	98
#9 FX Motion 771 PCI 2MB (VRAM)	220
#9 FX Motion 771 PCI 4MB (VRAM)	320

ORCHID

Kelvin PCI (64-Bit) 1MB	**$48**
Fahrenheit 64 PCI / VLB 1MB (DRAM)	58 / 68
Fahrenheit Video 3D 2MB	168

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MOTHERBOARD W/CPU

486DX2-80/256K VLB	78
486DX2-80/256K PCI	94
5X86-133/256K VLB	94
5X86-133/256K PCI	108
6X86-P120+/256K PCI	218
6X86-P133+/256K PCI	228
6X86-P150+/256K PCI	238
6X86-P166+/256K PCI	298
P5-75/256K PCI Triton VX (Pipelined Cache)	198
P5-100/256K PC Triton VX (Pipelined Cache)	228
P5-120/256K PCI Triton VX (Pipelined Cache)	258
P5-133/256K PCI Triton VX (Pipelined Cache)	298
P5-150/256K PCI Triton VX (Pipelined Cache)	368
P5-166/256K PCI Triton VX (Pipelined Cache)	488
ASUS	
P5-100/256K PCI (TRITON II) (Pipelined Cache)	308
P5-120/256K PCI (TRITON II) (Pipelined Cache)	328
P5-133/256K PCI (TRITON II) (Pipelined Cache)	378
P5-150/256K PCI (TRITON II) (Pipelined Cache)	438
P5-166/256K PCI (TRITON II) (Pipelined Cache)	558
PP-200/256K PCI	988
INTEL	
P5-75/256K PCI (ZAPPA)	218
P5-100/256K PCI (ZAPPA)	268
P5-120/256K PCI (ZAPPA)	288
P5-133/256K PCI (ZAPPA)	328
P5-75/256K PCI (ENDEAVOR II PIPELINED CACHE)	248
P5-100/256K PCI (ENDEAVOR II PIPELINED CACHE)	278
P5-120/256K PCI (ENDEAVOR II PIPELINED CACHE)	298
P5-133/256K PCI (ENDEAVOR II PIPELINED CACHE)	348
P5-150/256K PCI (ENDEAVOR II PIPELINED CACHE)	418
P5-166/256K PCI (ENDEAVOR II PIPELINED CACHE)	538
P5-100/256K PCI (ENDEAVOR PIPELINED CACHE)	288
P5-120/256K PCI (ENDEAVOR PIPELINED CACHE)	308
P5-133/256K PCI (ENDEAVOR PIPELINED CACHE)	368
P5-150/256K PCI (ENDEAVOR PIPELINED CACHE)	458
P5-166/256K PCI (ENDEAVOR PIPELINED CACHE)	578
P5-100/256K PCI (ATLANTIS PIPELINED CACHE)	358
P5-120/256K PCI (ATLANTIS PIPELINED CACHE)	388
P5-133/256K PCI (ATLANTIS PIPELINED CACHE)	428
P5-150/256K PCI (ATLANTIS PIPELINED CACHE)	498
P5-166/256K PCI (ATLANTIS PIPELINED CACHE)	608
P5-100/256K PCI (MARL) ATX	288
P5-120/256K PCI (MARL) ATX	308
P5-133/256K PCI (MARL) ATX	358
P5-150/256K PCI (MARL) ATX	428
P5-166/256K PCI (MARL) ATX	548
Pentium Pro PP-200 PCI (VENUS) ATX	918
SUPER MICRO Pentium Pro PP-200 PCI	938
SUPER MICRO DUAL Pentium Pro PP-200 PCI	1,648

MULTIMEDIA

CD Writer HP 4324A	$788
CD Writer Sony CDU9245	588
CD-ROM 6X 6-Speed IDE Int	69
CD-ROM 8X 8-Speed IDE Int	89
Creative 6X 6-Speed IDE Int	70
Goldstar 8X 8-Speed IDE Int	94
IBM 6X 6-Speed IDE Int	70
Mitsumi 8X 8-Speed IDE Int	96
Mitsumi 12X 12-Speed IDE Int	188
NEC 6X 6-Speed IDE Int	70
NEC 4X 4-Speed SCSI Int.	76
Samsung 8X 8-Speed IDE Int.	90
SONY 8X 8-Speed IDE Int.	94
TEAC 6X 6-Speed IDE Int	80
TEAC 8X 8-Speed IDE Int	96
TEAC 6X 6-Speed SCSI Int	140
Toshiba 8X 8-Speed IDE Int.	99
Toshiba 4X 4-Speed SCSI Int.	104
Speakers 20W/60W/80W/120W	10 / 15 / 20 / 26
Speakers 160W/180W/200W/300W	30/32/34/46
Yamaha Speakers M7 / M15	38 / 70
Yamaha Headphone RHI / RH3	25 / 45

HI-TECH P5 Notebooks

intel inside
Feel the Flexibility of P5 Notebooks

STANDARD CONFIGURATIONS

- 8MB RAM (please see upgrades)
- 540MB HDD (please see upgrades)
- Removable 1.44 Floppy Drive
- 2MB Display Memory
- Built-In Pointing Device
- Carrying Case
- 32-Bit PCI Bus
- Built-in Sound Card and Speaker
- NIMH Battery
- One Type III or Two Type II PCMCIA Slots
- FREE DOS 6.x
- CD-ROM / LI-ION Battery Option

HI-TECH P5 NOTEBOOKS	Dual Scan Color (11.3")	Active Matrix Color (10.4")	Active Matrix Color (12.1")
P5-75	$1,708	$1,938	$2,328
P5-100	$1,738	$1,968	$2,358
P5-120	$1,768	$1,998	$2,388
P5-133	$1,808	$2,038	$2,428
P5-150	$1,878	$2,108	$2,498

HI-TECH EXTRA VALUE UPGRADES

To 16MB / 24MB	Add $100 / 180
To 40MB	Add $340
To 1.0GB / 1.3GB Hard Drive	Add $130 / 240
PCMCIA Fax Modem 28.8 w/V.34	Add $130
PCMCIA Fax Modem 33.6 w/V.34	Add $140
PCMCIA LAN Adapter (10Base-T & Twist)	Add $110
Extra Battery Pak NiMH / LI-ION	Add $120 / 240
AC Adapter / Car Adapter	Add $85 / 100
Port Replicator	Add $150

HI-TECH CD-ROM Notebooks

intel inside
Feel the Power of CD-ROM Notebooks

STANDARD CONFIGURATIONS

- 8MB RAM (please see upgrades)
- 540MB HDD (please see upgrades)
- 6-Speed CD-ROM
- Removable 1.44 Floppy Drive
- 2MB Display Memory
- Built-In Pointing Device
- 32-Bit PCI Bus
- Built-in Sound Card and Speaker
- NIMH Battery
- One Type III or Two Type II PCMCIA Slots
- FREE DOS 6.x
- Mini Docking Station Option

HI-TECH CD-ROM NOTEBOOKS	Dual Scan Color (11.3")	Active Matrix Color (10.4")	Active Matrix Color (12.1")
P5-75	$1,838	$2,068	$2,468
P5-100	$1,868	$2,098	$2,498
P5-120	$1,898	$2,128	$2,528
P5-133	$1,938	$2,168	$2,568
P5-150	$2,008	$2,238	$2,638

HI-TECH EXTRA VALUE UPGRADES

To 16MB	Add $100
To 32MB	Add $250
To 1.0GB / 1.3GB Hard Drive	Add $130 / 240
PCMCIA Fax Modem 28.8 w/V.34	Add $132
PCMCIA Fax Modem 33.5 w/V.34	Add $140
PCMCIA LAN Adapter (10Base-T & Twist)	Add $110
Extra Battery Pak NiMH / 57.6W	Add $120 / 200
AC Adapter / Car Adapter	Add $85 / 100
Mini Docking Station	Add $220

SOUND CARDS

16-Bit Sound Card	$29
Televideo 16 MCD / IDE	42

CREATIVE
CREATIVE LABS, INC

Sound Blaster 16 PNP w/IDE	$64
Sound Blaster 32 PNP	109

CD UPGRADE KIT

CREATIVE
CREATIVE LABS, INC

Sound Blaster Pro Discovery CD 8X	$260
Sound Blaster Performance CD 8X	320

CD SOFTWARE TITLES

Arthurs Teachers Trouble	4
Baseball (w/System)	4
Beauty & The Beast MPC	4
Best Windows Games	4
Beyond the World of Stars	4
Bible Study and Games	4
Book of Patterns	4
Bring the World to Your Senses	4
CD Game Pak 2 DOS	4
Complete Guide to Symptoms	4
Desktop Publisher's Dream 1994	4
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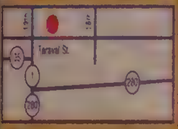

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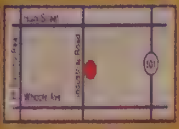

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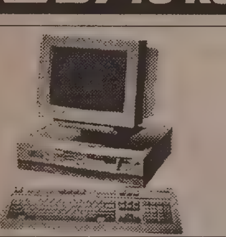

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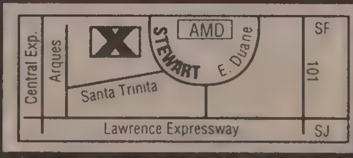

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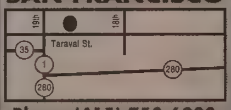

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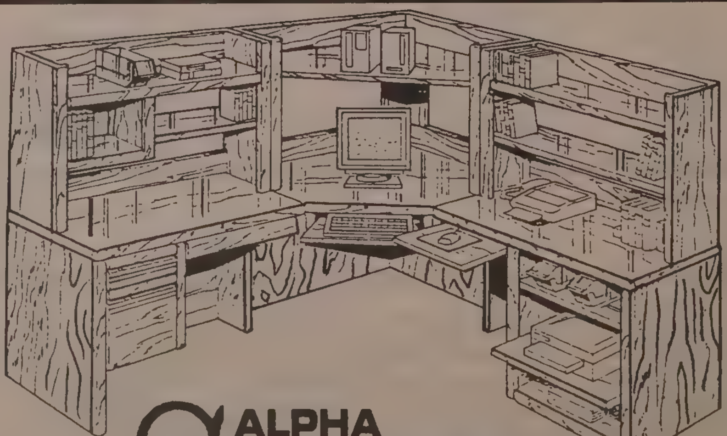

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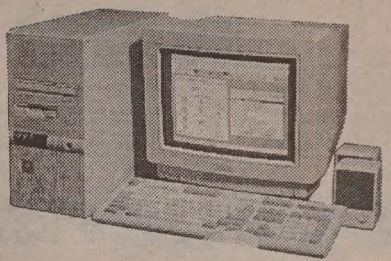

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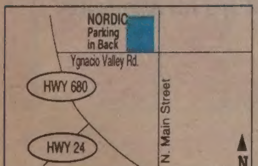

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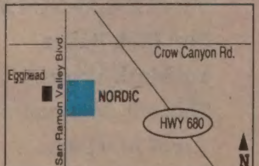

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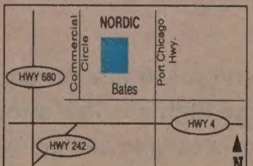

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DVORAK'S LAST COLUMN • BY JOHN C. DVORAK

The Way Of The Newsgroup And Online Discussion

Or, It's A Long Road To The Punchline

I generally *do not like newsgroups or online forums because they seldom stick to the point. Newspapers and magazines are successful because the information has an editor looking it over.*

Hopefully the editor is working in the interest of the reader, not in the interest of advertisers or even the writer. While writers tend to dislike editors, they are some of the most important people in the world. Otherwise we'd have the following (derived from an actual online conversation—apologies to those whose names I've changed to protect their innocence):

Sb: #NO Laptops on Airplanes
Fm: Mark Markus (the Gopher)
To: Travel Forum

Last week on a flight from Orlando to Chicago I was told by a flight attendant to put my laptop away. That it may "mess up" the auto pilot and they had received some kind of "FAR" that electronic devices were no longer allowed on airlines. The airline was Western Nordic Air, a regional charter operation. Has anyone else had this problem? What are the facts concerning this issue?

Sb: #NO Laptops on Airplanes
Fm: John Merritt ("Pudge")
To: Mark Markus

It seems that airlines are developing their own rules about laptops. I was on an American flight from Dallas the other day and there must have been a half-dozen laptops clicking away.

Sb: #123348-#NO Laptops on Airplanes
Fm: Mary Jenkins (Proud Mary—Keep on Truckin')
To: Pudge

Pudge, The "FAR" that John mentioned would be a "Federal Aviation Regulation" which, if true, would mandate what could or could not be done by the airline itself. Perhaps this is something which some magazines should look into with the FAA and get the "real story" direct from the regulatory agency itself. There was a news story in the local paper here recently which said that the FAA was going to conduct a new study on this issue, but as recent as this was, I doubt that the study has been completed and new regulations issued.

Sb: #123352-#NO Laptops on Airplanes
Fm: Bob Bennett (Big Bob)
To: Pudge

No FAR has been issued yet, but Northwest recently decided to forbid the use of laptops on their flights.

Sb: #123353-#NO Laptops on Airplanes
Fm: Joan X. (Joanie the Jonester)
To: Big Bob

Bullshit. Not true. I just flew Northwest out to St. Paul and back just last month, and I clicked-away for most of each flight.

Sb: #123366-NO Laptops on Airplanes
Fm: Bob Bennett (Big Bob)
To: Joan X.

The Northwest decision on laptops hit the papers about ten days ago. I don't know why you were allowed to use it.

Sb: #123353-NO Laptops on Airplanes
Fm: Matt Williams
To: Big Bob

This would make three different airlines which reportedly have taken the same position. But nobody can confirm any of this. Does anyone know the facts?

Sb: #123346-#NO Laptops on Airplanes
Fm: Rick Baker
To: Matt Williams

I usually fly Delta, and I've noticed them tell other laptop and electronics users to stow their devices because of some excuse. My solution is to bring a book or a magazine or watch the movie.

Sb: #123349-#NO Laptops on Airplanes
Fm: Matt WIlliams
To: Rick Baker

I popped for $4 and watched *Twister*. It was great, especially when the twister hit at the same time the plane went through turbulence.

Sb: #123359-#NO Laptops on Airplanes
Fm: Rick Baker
To: Matt Williams

Yeah, I liked that flick, but I saw it in a theater. The problem with airline flights is that they always play the same movie coming and going, even if the flights are a week apart. Have you seen *Mission Impossible*? I saw it on a plane last week.

Sb: #123383-NO Laptops on Airplanes
Fm: Joan X. (Joanie the Jonester)
To: Rick Baker

They NEVER play the same movie coming and going. Who are you kidding? You're an idiot!

Sb: #123346-NO Laptops on Airplanes
Fm: Matt Williams
To: Joan X.

I've seen it happen, but usually they say it's a mistake. Can we keep this conversation civil?

Sb: #123346-#NO Laptops on Airplanes
Fm: Rick Baker
To: Joan X.

You're the idiot.

Sb: #123354-#NO Laptops on Airplanes
Fm: Ben Benbow (Big Ben)
To: Rick Baker

I just joined this forum and yours was the first message I found. The others have scrolled off to someplace. What are we talking about here?

Sb: #123365-#NO Laptops on Airplanes
Fm: Rick Baker
To: Big Ben

>>I just joined this forum and yours was the first message I found. The others have scrolled off to someplace. What are we talking about here?<<
We're talking about the fact that Joan X. is an idiot.

Sb: #123373-NO Laptops on Airplanes
Fm: Tony Wong
To: Rick Baker

This is for everyone. Does anyone know where I can get a 220 plug adapter that works in the Sudan? I really need to find out where to get one.

Sb: #123365-NO Laptops on Airplanes
Fm: Mark Markus (the Gopher)
To: Rick Baker

Wow. I just got back to this forum hoping to find out something or other. What were we talking about? Laptops I thought.

Sb: #123346-NO Laptops on Airplanes
Fm: Rick Baker
To: Mark Markus

Shove it, Markus.

...and so it goes.....

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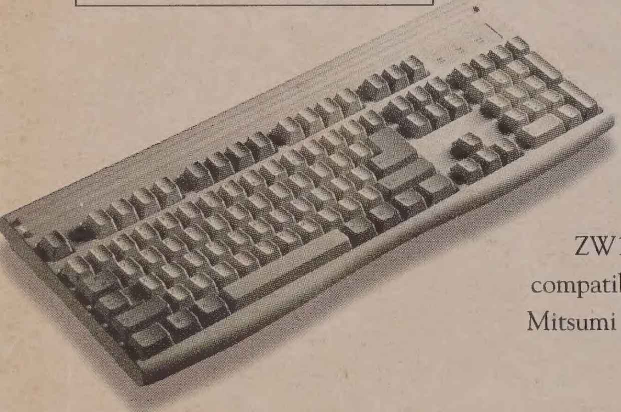

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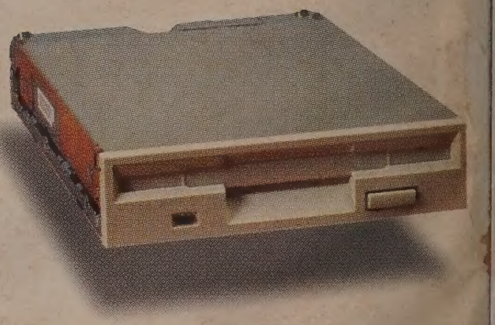

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